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EPI MANUAL CODES

PART3

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Contents

INTRODUCTION.....GMPI – EPI PART 1

SECTION P:.....GMPI

P1: AGRICULTURE, FOOD, TOBACCO.....11
P2: PERSONAL, DOMESTIC.....21
P3: HEALTH, AMUSEMENT.....37
P4: SEPARATING, MIXING.....51
P5: SHAPING METALS.....65
P6: SHAPING NON-METALS.....78
P7: PRESSING, PRINTING.....89
P8: OPTICS, PHOTOGRAPHY, GENERAL.....105

SECTION Q:.....GMPI

Q1: VEHICLES IN GENERAL.....125
Q2: SPECIAL VEHICLES.....149
Q3: CONVEYING, PACKAGING, STORING.....169
Q4: BUILDINGS; CONSTRUCTION.....187
Q5: ENGINES, PUMPS, COMPRESSORS, FLUID PRESSURE ACTUATORS.....205
Q6: ENGINEERING ELEMENTS.....223
Q7: LIGHTING, HEATING.....241

SECTION S:.....EPI - PART 1

S01: ELECTRICAL INSTRUMENTS.....267
S02: ENGINEERING INSTRUMENTATION.....275
S03: SCIENTIFIC INSTRUMENTATION.....291
S04: CLOCKS AND TIMERS.....309
S05: ELECTRICAL MEDICAL EQUIPMENT.....313
S06: PRINTING AND PHOTOGRAPHY.....325

SECTION T:.....EPI - PART 1

T01: DIGITAL COMPUTERS.....345
T02: ANALOGUE AND HYBRID COMPUTERS.....375
T03: DATA RECORDING.....377
T04: COMPUTER PERIPHERAL EQUIPMENT.....413
T05: COUNTING, CHECKING, VENDING, ATM AND POS SYSTEMS.....423
T06: PROCESS AND MACHINE CONTROL.....429
T07: TRAFFIC CONTROL SYSTEMS.....435

SECTION U.....EPI - PART 2

U11: SEMICONDUCTOR MATERIALS AND PROCESSES.....447
U12: DISCRETE DEVICES.....473
U13: INTEGRATED CIRCUITS.....483
U14: MEMORIES, FILM AND HYBRID CIRCUITS.....489
U21: LOGIC CIRCUITS, ELECTRONIC SWITCHING AND CODING.....501

U22: PULSE GENERATION AND MANIPULATION 513
U23: OSCILLATION AND MODULATION 521
U24: AMPLIFIER AND LOW POWER SUPPLIES 527
U25: IMPEDANCE NETWORKS AND TUNING 537

SECTION V ..... EPI - PART 2

V01: RESISTORS AND CAPACITORS 543
V02: INDUCTORS AND TRANSFORMERS 555
V03: SWITCHES, RELAYS 563
V04: PRINTED CIRCUITS AND CONNECTORS 571
V05: VALVES, DISCHARGE TUBES AND CRTS 587
V06: ELECTROMECHANICAL TRANSDUCERS AND SMALL MACHINES 617
V07: FIBER-OPTICS AND LIGHT CONTROL 633
V08: LASERS AND MASERS 639

SECTION W ..... EPI - PART 2

W01: TELEPHONE AND DATA TRANSMISSION SYSTEMS 645
W02: BROADCASTING, RADIO AND LINE TRANSMISSION SYSTEMS 685
W03: TV AND BROADCAST RADIO RECEIVERS 731
W04: AUDIO/VISUAL RECORDING AND SYSTEMS 759
W05: ALARMS, SIGNALLING, TELEMETRY AND TELECONTROL 801
W06: AVIATION, MARINE AND RADAR SYSTEMS 821
W07: ELECTRICAL MILITARY EQUIPMENT AND WEAPONS 835

SECTION X ..... EPI - PART 2

X11: POWER GENERATION AND HIGH POWER MACHINES 841
X12: POWER DISTRIBUTION/COMPONENTS/CONVERTERS 847
X13: SWITCHGEAR, PROTECTION, ELECTRIC DRIVES 861
X14: NUCLEAR POWER GENERATOR 877
X15: NON-FOSSIL FUEL POWER GENERATING SYSTEMS 879
X16: ELECTROCHEMICAL STORAGE 885
X21: ELECTRIC VEHICLES 893
X22: AUTOMOTIVE ELECTRICS 897
X23: ELECTRIC RAILWAYS AND SIGNALLING 917
X24: ELECTRIC WELDING 923
X25: INDUSTRIAL ELECTRIC EQUIPMENT 927
X26: LIGHTING 940
X27: DOMESTIC ELECTRICAL APPLIANCES 947

PART 3 INTRODUCTION 965

SUBJECT INDEX 967

APPENDICES 1247

APPENDIX 1: EPI SUBJECT MATTER COVERAGE 1249
APPENDIX 2: EPI MANUAL CODING CRITERIA 1251
APPENDIX 3: IPC TO EPI MANUAL CODE APPROXIMATE CONCORDANCE 1253

APPENDIX 4: CONCISE GUIDE TO EPI AND MECHANICAL CLASSIFICATION 1303
APPENDIX 5 : NANOTECHNOLOGY 1319
APPENDIX 6: GREEN TECHNOLOGY 1323

Part 3 Introduction

This third part of the EPI Manual Codes User Guide is intended to be used in conjunction with Parts 1 & 2 to assist subscribers in making the best possible use of the intellectually-assigned indexing applied by Thomson Reuters to electrical and electronic patents. The EPI codes may be thought of as a form of technical shorthand, being an economical way of conveying often very specific information about a patent. Manual codes are chiefly intended to serve as an online retrieval tool. By highlighting the novel aspects of an invention and its applications, a highly focussed search can be conducted.

There are a number of ways in which the codes appropriate to a particular search may be determined; the main ones being listed below :

1 By reference to the alphabetical subject index (page 3 in this manual)
2 By direct reference to the appropriate area of the code listing (Parts 1s 2 of this User Guide), if this is known.
3 By reference to the IPC to manual code concordance (Appendix 3) for cases where the IPC for the technology of interest is known.
4 By conducting a rough online search using keywords or IPCs for example, and employing statistical analysis to determine the most-frequently assigned manual codes for records identified as 'good hits'.

(For full details of online searching techniques please refer to the relevant Derwent WPI Online User Guide).

Whichever of the above methods is employed, it is essential that the user refers to the full entry for suggested codes in Parts 1 & 2 of the EPI user manual, to verify that they represent the desired subject matter. In particular, the scope notes for the suggested codes should be consulted, since they contain information regarding certain topics that are excluded, or indicate other relevant codes.

In short, although the EPI Manual Codes User Guide has been published as three volumes, it is essential that this third part is regarded as an aid to using Parts 1 & 2 and not used alone.

Subject Index

This index provides a detailed listing of technologies and indicates the corresponding manual codes. While the intention has been to produce a comprehensive index, it is not possible to include entries for all possible variations in particular technological fields without the result becoming very unwieldy.

Thus, in cases where a desired subject heading cannot be found as an index entry, alternatives such as abbreviations, terms in full, or synonyms should be considered.

Subject Index

A

A-D conversion - see Analogue-digital converter U21-A03

A/V - see Audio/video equipment (general)

AII-BVI compounds
- crystal growth U11-B03B
- doping U11-C02J1B
- etching U11-C07C4B
- heat, electrical, radiation treatment U11-C03J8B
- layer deposition U11-C01J3B
- LED structure U12-A01A1B
- photodiode, phototransistor, photothyristor structure U12-A02B5A
- semiconductor material manufacture U11-A01C
- semiconductor structure (with) U12-E01A2
- solar cell structure (with) U12-A02A2A
- substrate, electrode manufacture U11-C05F3D
- substrate, insulating layer deposition U11-C05B8B

AIII-BV compounds
- crystal growth U11-B03A
- doping U11-C02J1A
- etching U11-C07C4A
- heat, electrical, radiation treatment U11-C03J8A
- layer deposition U11-C01J3A
- LED structure U12-A01A1A
- photodiode, phototransistor, photothyristor structure U12-A02B5B
- semiconductor material manufacture U11-A01B
- semiconductor structure (with) U12-E01A1
- silicon substrate U11-C01J8B
- solar cell structure (with) U12-A02A2B
- substrate, electrode formation U11-C05F3A
- substrate, IC component isolation U11-C08B1
- substrate, insulating layer deposition U11-C05B8A

AIV elements and their compounds
- crystal growth U11-B03C
- doping U11-C02J1C
- etching U11-C07C4C
- heat, electrical, radiation treatment U11-C03J8C
- layer deposition U11-C01J4A
- LED structure U12-A01A1C
- photoconductive devices U12-A02B5D
- photodiode, phototransistor, photothyristor structure U12-A02B5X
- semiconductor material manufacture U11-A01D
- semiconductor structure U12-E01A3
- solar cell structures U12-A02A2C
- substrate, electrode formation U11-C05F3B
- substrate, IC component isolation U11-C08B3
- substrate, insulating layer deposition U11-C05B8C
- substrates, for electrode formation U11-C05F3B
- substrates, for insulating layer deposition U11-C05B8C

Abattoir X25-X03

Abrading X25-A03C2
- control T06-D07A
  X25-A03F

Abrasive materials for semiconductor manufacture U11-C06A1A

ABS, vehicle X22-C02C3

Abseiling P36-A06
W04-X01K9

Absolute position encoder U21-A03J5

Absorber, RF
- antenna and general purpose W02-B03D
- antenna and general purpose material W02-B03D1
- waveguide W02-A04B

Absorption spectrometry S03-A02B

AC bridges S01-F01

AC machine (see Electric machine also)
- alternator, aircraft application W06-B01C3
- alternator, vehicle application X22-F02
- asynchronous, induction V06-M02B
  X11-E
- brushless (general) V06-M03
  X11-H01
- brushless, permanent magnet V06-M03A
  X11-H01A
- brushless, sensorless V06-M03C
  X11-H01C
- brushless, switched reluctance V06-M03B
  X11-H01B
- commutator type V06-M02B
  X11-H09
- synchronous, hybrid V06-M01C
  X11-D05
- synchronous, with permanent magnet V06-M01A
  X11-G
- synchronous, without permanent magnet V06-M01B
  X11-D

AC mains network X12-H01X

AC-AC converter - see Converter

AC-DC conversion current/voltage measurement S01-D01C5

Acceleration control T06-B09
- auxiliary non-electric power-type T06-B09A
- electric T06-B09B
- without auxiliary power T06-B09A

Acceleration measurement S02-G03
- calibration S02-G07A
- compensation S02-G07C
- testing S02-G07E
- vehicle X22-X06B

Acceleration switch V03-C06C

Access control
- data network W01-A06E1
- data transmission contention (protocols) W01-A06F1
- personnel T05-D01
- vehicles T05-D02

Accessories for musical instruments P86-A30

Accordion (instrument) P86-A01C1

Acoustic
coupling (general) P86-E05A
damping (general) P86-E05E
emission, for breaking strain measurement - see also Fatigue testing S03-E08A
emission, for flaw detection S03-E08A
feedback prevention, general W04-G03C
feedback prevention, hearing aid, by constructional features W04-Y01A1
feedback prevention, hearing aid, by DSP W04-Y03G7
feedback prevention, hearing aid, by gain control W04-Y03A1A
feedback prevention, telephone W01-C01C3E
imaging S03-E08E
microscope S03-E08G
noise cancelling (electronic) W04-V07
noise reduction, computer T01-L02F
prospecting S03-C01
stethoscope P31-A05
transmission (general) P86-E05A

Acoustoelectric transducer V06-V01
applications - see Acoustoelectric transducer applications V06-V04
bone conduction type V06-V01P
calibration V06-V03B
capacitive V06-V01C
circuits V06-V02S
coils V06-V02C
combined-principle type V06-V01X
contact microphones V06-V04A2
cutters, gramophone W04-A01
details - see Acoustoelectric transducer, details V06-V02
digital V06-V01L
earphones V06-V04A4
electrets V06-V01C
electromagnets V06-V02C
electrostatic V06-V01C
electrostrictive V06-V01B
gramophone pick-ups V06-V04A3 W04-A02
gramophone styli V06-V04A3 W04-A02
headphones V06-V04A4
hydrophones V06-V04B V06-V04G1
loudspeakers V06-V04A1
cones V06-V02A
diaphragms V06-V02A
transducers V06-V01
magnets V06-V02C
magnetisable-diaphragm type V06-V01X
magnetostrictive V06-V01D
manufacture – see Acoustoelectric transducer manufacture
megasonic V06-V01N
microphones V06-V04A2
microtransducer V06-V01K1
miscellaneous type V06-V01X
nanotransducer V06-V01K2
monitoring V06-V03B
moving-armature type V06-V01A2
moving-coil type V06-V01A1
moving-magnet type V06-V01A2
moving-strip type V06-V01A3
moving-wire type V06-V01A3
optical-effect type V06-V01X
pick-ups V06-V04A3
piezoelectric V06-V01B
multilayer V06-V01B1
Rosen V06-V01B2
resonator V06-V01E
resonator, bulk acoustic wave V06-V01E2
resonator, magnetostatic wave V06-V01E3
resonator, surface acoustic wave V06-V01E1
sonar V06-V04B V06-V04G1 W06-A05C7
styli, gramophone V06-V04A3 W04-A02
telephone applications V06-V04B1 W01-C01M
testing V06-V03B
ultrasonic V06-V01N
ultrasonic, communication V06-V01N V06-V04B
variable-resistance type V06-V01X
wireless V06-V01M

Acoustoelectric transducers applications V06-V04
alarms V06-V04N
audio equipment V06-V04A
communication equipment V06-V04B
computers V06-V04M
delay lines V06-V04D2
displays V06-V04Q
domestic V06-V04S
earphones V06-V04A4
filters V06-V04D1
games V06-V04R
headphones V06-V04A4
industrial V06-V04L
instrumentation V06-V04G
loudspeakers V06-V04A1
measurement microphones V06-V04G3
mechanical work V06-V04C
medical V06-V04K
microphones V06-V04A2
microphones, measurement V06-V04G3
military V06-V04J
PA systems V06-V04A5
personal V06-V04P
pick-ups V06-V04A3
radio communication V06-V04B2
resonant sensor V06-V04G2
sensor V06-V04G
signalling V06-V04N
sonar, audio/voice communication V06-V04B
sonar, instrumentation V06-V04G1
sports V06-V04R
switching, contactless V06-V04E
telephone handsets V06-V04B1
transformers V06-V04F
toys V06-V04R

vehicle V06-V04H
vibrators V06-V04C
video equipment V06-V04A
Acoustoelectric transducer details V06-V02
cabinets V06-V02F
casings V06-V02E
circuit leads arrangement V06-V02H
coils V06-V02C
cones V06-V02A
dampers V06-V02G
diaphragms V06-V02A
directional (desired) characteristics, arrangements for V06-V02G
earpiece-attachments V06-V02X
electric circuitry, structural association with enclosures V06-V02F
electromagnets V06-V02C
frequency (desired) characteristics, arrangements for V06-V02G
housings V06-V02F
hygienic devices V06-V02J
leadthroughs, earphones V06-V02E V06-V04A4
magnets V06-V02C
mountings V06-V02F
mouthpiece-attachments V06-V02X
sanitary devices V06-V02J
strain relief for circuit leads V06-V02H
supports, music pick-up V06-V02F V06-V04A3 W04-U02A
throat-mountings, microphones V06-V02F V06-V04A2
Acoustoelectric transducer manufacture V06-V03A
cabinets V06-V03A6
casings V06-V03A5
coils V06-V03A3
cones V06-V03A1
diaphragms V06-V03A1
electrodes V06-V03A2
electromagnets V06-V03A3
layers V06-V03A4
magnets V06-V03A3
micromachining, apparatus V06-V03A7
micromachining, method V06-V03A7
micromachining, process V06-V03A7
miscellaneous V06-V03A9
mountings V06-V03A6
supports V06-V03A6
Actinometer S03-A03
Active antenna (aerial) W02-B08C1
Actuator
addressing, telecontrol/telemetry W05-D02J
control - see Actuator, control V06-N
electromagnetic V02-E02A
electrostatic V06-M06F
electrostrictive V06-M06D
magnetic recording head positioning T03-A05C5
magnetic-fluid V06-M06K
magneto-optical recording head focussing/positioning T03-D01D
magnetostrictive V06-M06H1
manufacture V06-M11
microactuator V06-M06G
microelectromechanical – see Microelectromechanical actuator also V06-M06G
multidimensional V06-M06P
nanoactuator V06-M06G9
optical recording head focussing T03-B02A1A
optical recording head positioning T03-B02A3A
piezoelectric V06-M06D
piezoelectric, ultrasonic V06-M06D1
shape memory alloy V06-M06M
solenoid, linear V02-E02A3
solenoid, rotary V02-E02A4
testing V06-M11M
thermomagnetic V06-M06
ultrasonic, non-piezoelectric V06-M06R
ultrasonic, piezoelectric V06-M06D1
Actuator, control
electromagnetic V02-E02A
electrostatic V06-N08
electrostrictive V06-N07
magnetic-fluid V06-N14
magnetostrictive V06-N09
microactuators V06-N22
nanoactuators V06-N22A
piezoelectric V06-N07
shape memory alloy V06-N16
thermomagnetic V06-N
ultrasonic V06-N36
Acupuncture S05-A05D
Acyclic machine X11-H09
Ad-hoc data network T01-N02A1B W01-A06B8E
ADSL subscriber interface W01-C01L3
ADSL system W01-C05B8A
Adaptive control system T06-A05
Adaptive filter (electric) - see Electric filter
analogue U25-A
digital U22-G01A5
Adaptor for different-size tape cassette T03-H01B6 T03-N03
ADC - see Analogue-digital converters
Adding, subtracting
analogue computing T02-A04B9
data processing T01-E02A
Address selection for memories – see Memories, address selection U14-A08A
Additive, magnetic materials V02-A09
Address allocation, telecontrol or telemetry
actuators W05-D02J W05-D08C
sensors W05-D02J W05-D08E
Addressing, network T01-N02A1A
Addressing circuitry, memories U14-A08

Adhesives
semiconductor manufacture application U11-A09
testing S03-F08
Ad-hoc network T01-N02A1B
Administration
computer data processing systems T01-J05A2
medical information systems T01-J06A1
T01-N01E1
health care S05-G02G2
health insurance S05-G02G2
hospital patient records S05-G02G1
medical, hospital S05-G02G
Admittance measurement S01-D05
Admittance spectroscopy S03-E02C5
ADR X22-E12
Adsorbing coating in disk drive T03-F02G1
Advertising (audible) W05-F
telephone network-based W05-F
W01-C05B5G
Advertising and signs (general) P85-E
advertising on other items P85-E01G
billboard P85-E01A
business signs P85-E01C
commercial signs P85-E01C
display cases and stands P85-E03
electrical aspects W05-E03
hoarding P85-E01A
print media advertising P85-E01J
shop signs P85-E01C
wind-driven signs P85-E01E
Advertising (mobile) W05-E03M
Advertising (protection) T01-N02B1C
Advertising (visual) W05-E03
additional information aspects W05-E03A6
addressable or switchable advertising displays W05-E03A5
audio aspects W05-E03A6A
billboards (static) with illumination W05-E03A1
billboards with moving portions W05-E03A3
checking TV transmission of commercial messages W02-F04C5
W05-E03C
data processing T01-J05A2C
displays W05-E03A
image substitution in TV systems W04-N05C5E
W05-E03C
internet-based W05-E03E
T01-N01A2C
near field link for additional information W01-A07H2N
W05-E03A6X
preventing recording of commercial messages W04-E04C5C
telephone network-based W05-E03G
W01-C05B5G
transponder for additional information W05-E03A6X
TV broadcast-based W05-E03C
TV monitor-based W05-E03A5E
Aerial – see Antenna W02-B
Aerodynamic testing S02-J07
Aerosol testing S03-F06A
Aerospace systems Q25
W06-B
AFC (automatic frequency control)
broadcast radio receiver W03-B01B
communication receiver W02-G03A7A
general U25-J05
television receiver W03-A02A
AFM - see Atomic force microscope
AGC
analogue (general) U24-C01A
broadcast radio receiver W03-B02A
communication receiver W02-G03D
comms receiver, novel AGC W02-G03D1
comms receiver, IF AGC W02-G03D5
comms receiver, RF AGC W02-G03D3
comms receiver, other AGC W02-G03D9
control signal derivation U24-C01C
digital (general) U24-C01B
general U24-C01
optical communication receiver W02-C04A3C
television receiver W03-A03A
Agglutination properties measurement - see also under Biological materials analysis S03-F08
AGR X14-A02
Agriculture – see also Horticulture, agriculture X25-N
arable X25-N01
baling X25-N01
baling, control T06-D01
X25-N01
bird scarer X25-N01
control T06-D01A
X25-N01A
culturing X25-N01B
culturing, control T06-D01B
X25-N01B
fertilising X25-N01B
fertilising, control T06-D01B
X25-N01B
grading produce X25-F06
X25-N01
grain silo X25-N01
greenhouse X25-N01
influencing weather X25-X20A
to promote rain for irrigation X25-N01B
insecticide spraying X25-N01
insecticide spraying, control T06-D01
X25-N01
irrigating X25-N01B
irrigating, control T06-D01B
X25-N01B
livestock feeder control T06-D01C
X25-N02A
livestock milking control T06-D01C
X25-N02B1
parasite extermination X25-N01
plough X22-X11
X25-N01A
plough, control T06-D01A
X25-N01A
seed treatment X25-N01
soil working X25-N01A
P11

soil working, control T06-D01A X25-N01A
sorting produce X25-F06 X25-N01
sowing X25-N01A
sowing, control T06-D01A
tractors Q19-G X22-P09 X25-N01A
vermin extermination X25-N01
vermin / insect extermination X25-X02
weeding X25-N01

Agriculture, harvesting – see also Harvesting P12
constructional details of machinery P12-T
control T06-D01A X25-N01A
machinery/instruments P12-A
tobacco P15-L01
type of produce P12-C

Agriculture, livestock X25-N02 P14-E02A
apiary X25-N02
artificial insemination (AI) X25-N02
automatic feeder, control T06-D01C
automatic feeding and drinking X25-N02A
branding X25-N02
cattle farming X25-N02
fencing, general X25-X11
fencing, livestock X25-N02C
fish farming X25-N02
horse shoeing P14-A06
housing X25-N02C P14-A01A
housing, air conditioning X25-N02C X27-E01B
housing, heating X25-N02C X27-E01A
killing and stunning of animals, abattoir X25-X03
milk meter S02-C X25-N02B
milk processing T06-D01C X25-P01C
milk monitoring X25-N02B
milking X25-N02B P14-A07
milking, control T06-D01C X25-N02B
poultry farming X25-N02
poultry farming, egg incubator X25-N02
poultry farming, eggs grading X25-F06 X25-N02
trawler fishing gear X25-N02

AGV X25-F05A
position control T06-B01A

AI
artificial insemination of livestock X25-N02
artificial intelligence - see Artificial intelligence

Aid device for handicapped people S05-K
mobility aid S05-K01
vehicle mounted aid X22-X19
wheelchair Q22-C02 S05-G02A

Air circuit breaker
with built-in arc control X13-B02
with separate arc control X13-B03A
without arc control X13-B01

Air cleaner/filter Q74-A02F
disc drive T03-F02G1 T03-N01
domestic X27-E01B2
photocopiers S06-A10B

Air conditioning X27-E01B Q74-A02B
aircraft Q25-B03 W06-B01C5
airport W06-B02T
clean room U11-C15B1
cleaning X27-E01B2
climate control X27-E01C
fan X27-E01B1
freshening X27-E01B2
humidifier X27-E01B2
ozoniser X27-E01B2
railway station X23-S99
railway train X23-A10
ship Q24-B03 W06-C01C5
vehicle Q14-M X22-J02E
ventilator X27-E01B1

Air curtains Q74-A02G

Air de-humidifier X27-E01B2 Q74-A02C

Air filter
clean room U11-C15B1
disc drive T03-F02G1 T03-N01
domestic X27-E01B2
medical S05-A09
photocopiers S06-A10B
vehicle IC engine Q51-H05F

Air freshener X27-E01B2

Air humidifier X27-E01B2 Q74-A02C

Air quality measurement S03-D06 S03-E14N
clean room S03-E14N3
in buildings S03-E14N1
other air quality measurement S03-E14N9

Air reed musical instrument P86-A01A5

Air sports P36-A03 W04-X01K3N

Air temperature measurement (see also Thermometers) S03-D04

Air tightness, semiconductor package testing U11-F01E

Air-bridges, semiconductor device interconnections U11-D03B2
acoustic transducer-sensor S02-E09

Airborne radio relay communications W02-C03B1F

Aircraft Q25
W06-B01
antenna W02-B08F5
W06-B01B7
antenna mounting W02-B07D
W02-B08F5
W06-B01B7
airspeed measurement W06-B01B1
alternator W06-B01C3
altitude control Q25-C05
T06-B01B
W06-B01A5
anti-hijack W06-B01C8
antiphase sound cancelling W04-V07
W06-B01C9
attitude control T06-B01B
W06-B01A5
autopilots W06-B01A5
black box flight recorder W06-B01B6
braking control W06-B01A
communications W06-B01B7
control systems W06-B01A
crew headsets W06-B01B7
crew intercom W01-C04A
W06-B01B7
data bus systems W06-B01B8
de-icing equipment W06-B01C4
electrical installations W06-B01C1
X12-G04A
electrical power generation and distribution W06-B01C3
X12-H01B4
entertainment systems W06-B01C7
escape hatch Q25-B09E
W06-B01C9
fire extinguishing P35-C01C7A
Q25-B09A
W06-B01C9
flight recorder W06-B01B6
gas turbine engine control W06-B01A1C
generator W06-B01C3
head-mounted display W06-B01B4
head-up display W04-A01K
W06-B01B3
engine
gas turbine engine Q25-C02B
Q52
IC engine Q25-C02A
Q51
turbofan engine Q52-A01C
turbojet engine Q52-A01A
turboprop engine Q52-A01E
IC engine control W06-B01A1A
in-flight entertainment W06-B01C7
instrumentation Q25-B05
W06-B01B
jet engine control W06-B01A1C
launching Q25-R07
W06-B02L
lighting, external W06-B01C2
X26-U09
lighting, internal W06-B01C5
X26-U09
maintenance Q25-R09
W06-B08
manufacture Q25-X05
W06-B08
oxygen generating cell W06-B01C9
oxygen mask Q25-B09C
W06-B01C9
pilot protection alarm W05-B07E
power plant control systems W06-B01A1
public address (PA) systems W04-S05
W06-B01C7
security W06-B01C8
simulators Q25-X04
W06-B04
sound cancelling W04-V07
W06-B01C9
testing W06-B05
training equipment Q25-X03
W06-B04
trim adjustment W06-B01A5
Aircraft construction Q25-A
air cushion alighting gear Q25-A05F
air frame Q25-A01A
arrestor hooks Q25-A07G
brake systems Q25-A07
cabin Q25-B01
deck Q25-A01C
blind Q25-A03A1
bulkhead Q25-A01E
door Q25-A03C
emergency oxygen supplies Q25-B09C
engine manufacture Q25-C02B
Q51-M
Q52-M
escape slide Q25-B09E
floats Q25-A05C
fuselage Q25-A01
galley Q25-B01
hatch Q25-A03E
HVAC Q25-B03
W06-B01C5
instrumentation Q25-B05
W06-B01B
load handling Q25-B02
manufacture Q25-X05
W06-B08
noise/vibration/harshness reduction Q25-N
parachute Q25-B09G
ribs/spars/stringers Q25-A02A
saftey/emergency equipment Q25-B09
sanitation Q25-B01C
shower Q25-B01C2
skins/linings Q25-A01G
skis Q25-A05B
toilet Q25-B01C1
undercarriage Q25-A05
wheels Q25-A05A
window Q25-A03A
wings Q25-A02
Aircraft instrumentation Q25-B05
W06-B01B
anticollision sec. radar W06-A04B1
W06-A04H1A
W06-A04H1K
W06-B01B1
black box recorder W06-B01B6
clear air turbulence (CAT) warning W06-B01B1
data bus systems W06-B01B8
engine parameter measurement W06-B01B5
engine speed W06-B01B5
navigation W06-B01B1

vehicle parameter measurement W06-B01B5
windshear warning W06-B01B1

Aircraft propulsion Q25-C
engine cooling Q25-C02
Q52-G
flappable wings Q25-C01A3
fuel supply Q25-C02M
gas turbine Q25-C02B
IC engine Q25-C02A
muscle power Q25-C01G
propeller Q25-C01A1
propeller shaft Q25-C03E
Pulse detonation engine Q52-B01A
RAMJET Q25-C02B
SCRAMJET Q25-C02B
towed Q25-C02G
transmission Q25-C03
turbofan Q25-C02B
Q52-A01C
turbojet Q25-C02B
Q52-A01A
turboprop Q25-C02B
Q52-A01E
wind power Q25-C01E

Aircraft steering/attitude/altitude control
Q25-C
W06-B01A5
air brakes Q25-A07A
boundary layer control Q25-C05H
by adjusting propulsion direction Q25-C05E
control surfaces Q25-C05C
flaps Q25-C05C
rudder Q25-C05A
stabilisation Q25-C05G

Aircraft type Q25-P
W06-B15
airship Q25-P01A
W06-B15A
balloon Q25-P01B
W06-B15A
blimp Q25-P01A
W06-B15A
commercial Q25-P25
W06-B15D
convertible aircraft Q25-P10
dirigible Q25-P01A
W06-B15A
glider Q25-P05
W06-B15C
hang-glider Q25-P07
W06-B15X
helicopter Q25-P02
W06-B15B
lighter-than-air Q25-P01
W06-B15A
micro aerial vehicle (MAV) W06-B15X
microlight Q25-P06
W06-B15F
military Q25-P13
W06-B15E
model aircraft W04-X03E1
ornithopter Q25-P03
W06-B15X
rotorcraft Q25-P02
W06-B15B
sea plane Q25-P04
W06-B15X
space craft Q25-S01C
W06-B03
space shuttle Q25-S01B
W06-B03
umanned aerial vehicle (UAV) W07-F04
VTOL Q25-P08
W06-B15G

Airport/ground equipment Q25-R
aircraft cleaning Q25-R10
aircraft cleaning Q25-R10
aircraft launching/towing Q25-R07
W06-B02L
aircraft stand Q25-R03
airfield Q25-R02
cargo handling Q25-R05
W06-B02T
construction Q25-R02
ground based servicing Q25-R09
hangar Q25-R01
passenger handling Q25-R03
W06-B02T
runway Q25-R02
towing/manoeuvring Q25-R07

Airport control systems and equipment
Q25-R
W06-B02
air traffic control W06-B02E
baggage conveyor W06-B02T
X25-F01
loading aircraft W06-B02D
baggage inspection W06-B02A5A
baggage monitoring W06-B02A5E
baggage tracking W06-B02A5E
check-in W06-B02R
via internet T01-N01A2
evacuation W06-B02S
fire-fighting W06-B02S
X25-X05
ground based communication W06-B02E
ground based navigation W06-B02E
ground equipment refuelling W06-B02D
servicing/maintenance W06-B02D
passenger information equipment W06-B02C
passenger security check systems W06-B02A1
passport control W06-B02R
safety W06-B02S
security W06-B02A
for personnel W06-B02A1
for baggage W06-B02A5
servicing aircraft Q25-R09
W06-B02D

Alamouti coding W01-A01A
W02-C03A5

Alarm W05-B
antimugging W05-B01D5
antitheft W05-B01
arming W05-C03
carbon monoxide W05-B07L1
central station - see Alarm, centralised signalling W05-B05
constructional details W05-B10C
V04
disarming W05-C03

false alarm prevention W05-C02C5
based on sensor features W05-C02C5A
based on system features W05-C02C5C
fire W05-B02
gas W05-B02A
general details W05-B10
interpretation W05-C02C1
intruder W05-B01
monitoring of W05-C
personal safety alarm W05-B07
personal safety, antimugging W05-B01D5
power supplies W05-B10E
U24
prediction of alarm condition W05-C02C3
reminder W05-A10A
responsive to two or more different conditions W05-B03
responsive to unspecified condition W05-B04
smoke W05-B02A
switches W05-B10A
tamper detection W05-C01J
testing W05-C01
theft W05-B01
timer S04-C02A
traffic signal fault T07-C05
vehicle X22-D03A
with signalling to central station W05-B05

Alarm, centralised signalling W05-B05
cyclic interrogation W05-B05A5
polling arrangement W05-B05A5
remote sensor monitoring W05-B05A1
remote sensor signalling W05-B05A1
reverse transmission W05-B05A7
transmission medium W05-B05B
using 3G or 4G phone system W05-B05G5G
using cellular phone system W05-B05G5C
using cordless phone system W05-B05G5A
using optical link W05-B05B4
using power transmission lines W05-B05B1
using radio transmission system W05-B05B2
using data network W05-B05B6
using telephone transmission lines W05-B05G1
vehicle tracking X22-D03C

Alarm clock or watch
built into telephone S04-B05
W01-C01P9
electrical S04-B05
mechanical S04-A02X

Alarm, pill bottle X27-X

Alcohol thermometer S03-B01D

Alignment checking
digitally marked record carriers T04-B
general measuring S02-A10D
using electrical/measuring methods S02-A02
S02-A10D
magnetic recording heads T03-A05A
using mechanical methods S02-A01
S02-A10D
using optical methods S02-A03
S02-A10D
vehicle tracking/wheel alignment S02-J02A

Alkaline
accumulator - see Alkaline secondary cell X16-B01A
fuel cell X16-C03
primary cell X16-A01
secondary cell - see Alkaline secondary cell X16-B01A

Alkaline fuel cell (AFC) X16-C03

Alkaline secondary cell X16-B01A
metal-hydrogen X16-B01A3
nickel-cadmium X16-B01A1

Aloha data network access W01-A06F1G

Alternator - see AC machine

Altitude
measurement of S02-B02A

Ambulance equipment S05-G02B2B

American football P36-A01
W04-X01K1R

Ammeter clamp S01-D01D1A

Ammunition – see Weapons Q79

Amorphous semiconductor
film deposition U11-C01J2
photodiode, phototransistor, photothyristor structure U12-A02B5C
solar cell U12-A02A2F

Amplidyne X11-H09
control X13-H01C9

Amplifier
AGC for U24-C01
amplitude-locked loop U24-C01G
applications U24-G01
audio - see Audio amplifier U24-G01C
W03-C01
bandwidth-extending arrangement U24-G03J
biasing network U24-G03G1
bidirectional U24-G02F3
bipolar transistor (discrete) implementation U24-G04B1
bipolar transistor (integrated) implementation U24-G04A1
bridge U24-G02F4
cascaded U24-G02F5
cascode U24-G02F7
charge U24-G02X
chopper-modulation U24-G02E
CMOS implementation U24-G04A2
CMRR improvement U24-G03P1
configuration U24-G02
constructional details U24-G05A
control signal derivation U24-C01C
current mirror U24-G02A3
current mode operational amplifier U24-G02A5C
DC coupled U24-G02D
device characteristics - reducing dependence on U24-G03Q
dielectric U24-G04X
differential U24-G02A1
differential input U24-G02A1A
differential output U24-G02A1B
differential input and output U24-G02A1C
digital U24-G02E
discrete device implementation U24-G04B
distortion introducing arrangement U24-G03K
distortion reducing arrangement U24-G03D5
distributed (microwave) U24-G02F5
U24-G04M
dynamic range improvement U24-G03D3
efficiency improvement U24-G03N1
feedback, negative U24-G03A

feedback, positive U24-G03B
feedforward U24-G03B1
FET (discrete) implementation U24-G04B2
FET (integrated) implementation U24-G04A2
gain control U24-C
gain improvement U24-G03P5
gated U24-G02F1
general circuits U24-G
harmonic distortion reduction U24-G03D5A
headroom improvement U24-G03N1
high frequency U24-G01D
high frequency power U24-G01B5
high power U24-G01B
IF, broadcast radio receiver W03-B02B5
IF, communications receiver W02-G03C
IF, TV receiver W03-A03B5
impedance modification U24-G03R
implementation technology U24-G04
instrumentation U24-G01A1
integrated circuit - specific improvement U24-G03E
integrated semiconductor device implementation U24-G04A
intermodulation distortion reduction U24-G03D5C
logarithmic U24-G01F
low frequency U24-G01C
low frequency power U24-G01B1
low voltage operation U24-G03N5
magnetic U24-E04
microwave (involving constructional aspects) U24-G04M
multichannel U24-G02F2
negative feedback U24-G03A
noise reduction U24-G03D1
noise due to components U24-G03D1A
noise due to external sources U24-G03D1B
nonlinearity introducing arrangement U24-G03K
offset reduction U24-G03F
operational amplifier implementation U24-G04C
operational amplifier per se U24-G02A5
opto-receiver U24-G01A5
other distortion U24-G03D5X
parametric U24-G04E
peak detector U24-C03A
phase-splitter U24-G02C1
positive feedback U24-G03B
power U24-G01B
power consumption reduction U24-G03N1
power supply variation immunity arrangement U24-G03G
push-pull U24-G02C5
PWM amplifier U24-G02E
reflex U24-G02X
ringing reduction U24-G03L
RF, broadcast radio receiver U24-G01D W03-B01A3
RF, communications receiver U24-G01D W02-G03A3
RF power U24-G01B5
RF power for transmitter U24-G01B5 W02-G01B
RF, TV tuner U24-G01D W03-A01B3
stability-improving arrangement U24-G03L
supply voltage reduction U24-G03N5
switching amplifier U24-G02E
switch-on ('shock') noise reduction U24-G03D
switched capacitor operational amplifier implementation U24-G04C1
switched capacitor type amplifier U24-G02B
telephone speech W01-C01C1
temperature change immunity arrangement U24-G03H
testing U24-G05C
thin film circuit implementation U14-H01C U24-G04A
transconductance U24-G02A5A
two-way U24-G02F3
vacuum tube implementation U24-G04D

Amplitude compression
audio signal (general) W04-G04
general U24-C02B
RF systems W02-G04B1
video signal (general) W04-P01E8
video signal (recording) W04-F01A5

Amplitude demodulation U23-K
general signal rectifiers (AGC, level detection, etc.) U24-C03

Amplitude limiting
DC level clamping (general) U24-C02A5
general U24-C02A
pulse U22-D01A1
soft (general) U24-C02A1
TV receiver video W03-A04C
video signal (general) W04-P01E8 W04-P01K
video signal (recording) W04-F01A5 W04-F01X

Amplitude modulation U23-G

Amplitude shift keying U23-P01C1 W01-A09A1

Amusements
arcade games W04-X02A8
cinema S06-B05 W04-X03G5
coin or card actuated T05-H05E
fairground W04-X03G3
games - see W04-X03G8
juke box W04-X03A1
karaoke W04-X03A3
museums, exhibitions W04-X03G7
music-based entertainment W04-X03A
novelties W04-X03C
ornaments W04-X03C
pachinko W04-X02A1
theatre W04-X03G1
theme park W04-X03G3

Anaesthesia S05-L
gas delivery systems S05-L01
intravenous or intramuscular delivery S05-L02

Anaglyph 3D glasses for stereoscopic display W03-A08E7E

Analogue
circuit modules testing S01-G01C3
circuits, testing S01-G01C
ICs testing S01-G01C1

Analogue automatic gain control (AGC) U24-C01A
Analogue computers T02-A
applications T02-A04A
arbitrary function generation T02-A04B4
convolution T02-A04B2A
economics, statistics T02-A04A1
electric T02-A04
evaluation T02-A04B3
fuzzy logic T02-A04B6
hand-manipulated T02-A01
hybrid arrangements T02-B
integration/differentiation T02-A04B2
interpolation, extrapolation T02-A04B5
magnetic T02-A04
mechanical/fluid pressure T02-A02
multiplication/division T02-A04B1
neuronal T02-A04A5
optical implementations T02-A03A
optical/electrooptical T02-A03B
processing T02-A04B
programming T02-A04X
using optical or electro-optical elements T02-A03
Analogue filter - see Electric filter
Analogue frequency multipliers/dividers U23-B01
Analogue integrated circuits U13-B
bipolar U13-B01
combined FET and bipolar U13-B03
custom analogue array U13-B09
FET U13-B02
MESFET, JFET U13-B02B
MOSFET U13-B02A
with diodes and/or capacitors and/or resistors U13-B04
Analogue input T04-F02
construction T01-F02C
Analogue magnetic recording methods T03-A06A T03-A06B
Analogue memories - see Memories, analogue U14-B
Analogue phase/frequency comparator U23-C01
Analogue switching U21-B05A
Analogue-digital converter U21-A03
broader system details U21-A03F5
clock arrangements U21-A03F5C
dual-slope type U21-A03A
flash type U21-A03C
increased accuracy U21-A03F7N
increased conversion speed U21-A03F7C
increased precision U21-A03F7N
increased range U21-A03F7E
increased resolution U21-A03F7A
integrated circuit details U13-B
interpolating type U21-A03E
input/output circuitry U21-A03F5A
noise reduction and error correction U21-A03F7G
performance improvements U21-A03F7
pipeline U21-A03B3
position encoders - see Position encoder U21-A03J
reducing power consumption U21-A03F7J
reversible converters U21-A03H
sampling U21-A03F6
serial-parallel U21-A03E
size reduction U21-A03F7L
successive approximation U21-A03B1
switch capacitor U21-A03B5
testing and calibrating U21-A03F1
using superconducting devices U14-F02C U21-A03G
voltage reference circuits U21-A03F5B
with conversion to duration/frequency U21-A03A
with feedback U21-A03B
Analogue/digital integration U13-C09
Analysing tube V05-F01
AFM - see also atomic force microscope S03-E02F3
antenna V05-F04L
apertures V05-F04B1A
charge-up prevention element V05-F04X
circuitry V05-F01B5
complete device V05-F01B1
control circuitry V05-F01B5A
cooling V05-F04K
detectors V05-F04H
device details V05-F01B3 V05-F04
device type V05-F01A
display systems V05-F04J
electrode arrangements V05-F04B
electrodes, for beam modulation V05-F04B1
electrodes, for beam scanning V05-F04B3
electron microscope V05-F01A1
emission source V05-F04A
equipment function V05-F08
field emission electrodes V05-F04A3
gas filling V05-F04E
heating arrangement V05-F04X
imaging systems V05-F04J
ion diffraction tube V05-F01A2
ion microscope V05-F01A2
ion source V05-F04A5
microanalyser V05-F01A4
monitoring V05-F01B5A
novel details (general) V05-F01B
operation of device V05-F01B5
photographic recording V05-F04J
power supplies V05-F01B5
probe electrodes V05-F04B6
scanning electron microscope (SEM) V05-F01A1B
scanning transmission electron microscope (STEM) V05-F01A1C
scanning tunnelling microscope (STM) V05-F01A5
seals V05-F04D1
secondary electron detectors V05-F04H
secondary ion mass spectrometer (SIMS) V05-F01A9 V05-J01A1
specimen holder V05-F04G
specimen introduction arrangement V05-F04D3
spot analyser V05-F01A4

stimulable sheet recording V05-F04J
S06-K99G
thermionic emitter V05-F04A1
transmission electron microscope (TEM) V05-F01A1A
tunnel current device V05-F01A5
vacuum locks V05-F04D3
vessel V05-F04D1
video systems V05-F04J
waveguide V05-F04L
X-ray microscope V05-F01A3

Analysis
biological fluids S05-C02
biological processing T01-J13A
biological tissues S05-C03
blood sample S05-C01
drugs, medical S05-C05
medical S05-C
scientific processing T01-J13

Analysis, content, information retrieval T01-J05B1
Information analysis T01-J05C

Anemometer S02-G02

Angle demodulation U23-L

Angle measurement S02-A10D1
using electrical/magnetic method S02-A02
S02-A10D1
using mechanical method S02-A01
S02-A10D1
using optical method S02-A03
S02-A10D1
surveying S02-B05
using sound or ultrasound S02-A05B
S02-A10D1

Angle modulation U23-H

Angling P36-A07
W04-X01K7A

Angular speed
electrical/magnetic measurement S02-G01B1
measuring S02-G01
optical measurement S02-G01A

Animal
amphibians P14-E01E
animal wear, e.g. horsetack P14-A04
birds P14-E01B
breeding equipment P14-A05
fish P14-E01C
killing and stunning of animals, abattoir X25-X03
P14-B01
feeding and drinking P14-A02
fishing P14-B02
housing and fencing P14-A01A
hunting P14-B01
invertebrates P14-E01F
laboratory animals P14-E02C
livestock – see Agriculture, livestock X25-N02B
P14-E02A
maintenance/repair of equipment P14-G
mammals P14-E01A
milking P14-A07
pets X27-H
P14-E02B
reptiles P14-E01D
shoeing P14-A06
training P14-A01B
washing and grooming P14-A03

Animation, computer T01-J10C5

Anisotropic
connector (general) V04-A11
connector, for semiconductor device U11-D03A9
V04-A11

Annealing for semiconductor mfr. U11-C03J2A

Anode
cold cathode tube V05-B03B5
discharge tube (general) V05-M03E
electrolytic capacitor V01-B01A
fluorescent display V05-D01C
V05-D05F
gas-filled tube V05-A07A1
plasma display tube V05-A01C1
sacrificial X25-R06
sputtering apparatus V05-F04B5A
V05-F05C
sputtering appts. V05-F05E3
V05-F08D1A
thermionic tube V05-B01B5
transit time tube V05-C02A1
X-ray tube V05-E01A1

Anodising X25-R05

Answering machine - see Automatic answering telephone equipment W01-C01C5

Antenna (aerial) W02-B
absorber W02-B03D
absorber material W02-B03D1
active W02-B08C1
active element with e.g. reflector W02-B04
appearance improvement W02-B08P8G
array - see Antenna array W02-B05
automatic directional control W02-B06C
bandwidth increasing W02-B08P3
bird repellant W02-B09
box-kite W02-B04D5
capacitive coupling W02-B08D3
collapsible W02-B08K
compactness improving W02-B08P8J
computer simulation T01-J15
W02-B08L1
concealment W02-B08P8G
coupling W02-B08D
cross-polarisation reduction W02-B08P5C
design W02-B08L1
diffractor W02-B03A
dipole W02-B01B
dipole, folded (linear) W02-B01B1A
dipole, ring W02-B01B2A
dipole, spiral W02-B01B3
directivity increasing W02-B08P5A
discone W02-B01C5
durability increasing W02-B08P8C
edge effect reduction W02-B08P5E
electronic beam steering W02-B06B
feed W02-B04C
ferrite rod W02-B01A1
folded dipole (linear) W02-B01B1A
folded dipole (ring) W02-B01B2A

gain increasing W02-B08P1
gain measurement W02-B08A1E
ground plane W02-B01C1G
helical W02-B01C3
horn W02-B02B
housing W02-B07C
impedance matching W02-B08E1
improvements in performance W02-B08P
inductive coupling W02-B08D3
inverted-F W02-B01F
isolation from adjacent aerial W02-B08P6
lens W02-B03A
living body used as aerial W02-B12C
loading coil (whip aerial) W02-B01C1C
log periodic W02-B01D1
loop W02-B01A
manufacture W02-B08L
mass reduction W02-B08P8L
mast W02-B07A1A
mechanical strength increasing W02-B08P8A
metal structure used as aerial W02-B12A
metamaterials-based W02-B08Q1
microstrip W02-B02A
microstrip slot W02-B02A
W02-B02C1
modelling W02-B08L1
monopole W02-B01C
mounting hardware W02-B07A1C
multi-band W02-B08R1A
multi-directional W02-B08R3
multi-polarisation W02-B08R5
non-communications application W02-B10
optical coupling W02-B08D3
overvoltage protection W02-B08B1
parabolic W02-B04E5
parasitic array W02-B04
performance improvement W02-B08P
plasma chamber antenna V05-F04L
V05-F05C1A
V05-F05E3
W02-B10
plasma conductor antenna W02-B09
polariser W02-B03C
printed V04-Q06
W02-B07A3A
QFH (quadrifilar helix) W02-B01C3A
quad W02-B04D5
radiating element details (dipole, monopole, etc.) W02-B01R
radiation pattern measuring S01-D07B1
S01-H05
W02-B08A1A
radiation protection W02-B08B5
radome W02-B07C
reduced-size antennas W02-B08P8J
reduced-weight antennas W02-B08P8L
reflector - see Antenna reflector W02-B03B
refractor W02-B03A
resonant slot W02-B02C
rhombic W02-B01D
rod W02-B01C1
rotator W02-B06A
scattering reduction W02-B08P5E
set-up and alignment W02-B08A5
set-up based on optimum reception W02-B08A5A
set-up based on geographical position W02-B08A5C
S02-B
W06-A03
size reduction W02-B08P8J
slot type W02-B02
special property material-based W02-B08Q
spiral dipole W02-B01B3
standing wave ratio reduction W02-B08P7
stub mast W02-B07A1C
surface mounting W02-B07A3C
superconductor-based W02-B08Q5
support W02-B07A
switching W02-B08D5
telescopic W02-B01C1A
testing S01-G08A5
W02-B08A
tower W02-B07A1A
travelling-wave W02-B01D
tuning W02-B08E5
unipole W02-B01C
using existing metallic structure or conductor system W02-B12A
using living body, part of body W02-B12C
using materials with special properties W02-B08Q
using metamaterials W02-B08Q1
using superconductors W02-B08Q5
varying directional pattern W02-B06
variable polarisation W02-B06E
vehicle application - see Vehicle aerial W02-B08F
vehicle mounted - see Vehicle aerial mounting W02-B07D
VSWR improvement W02-B08P7
warning light W02-B09
waveguide W02-B02
waveguide horn W02-B02B
weather-resistance improvement W02-B08P8E
weight reduction W02-B08P8L
whip W02-B01C1
wideband W02-B08R1C
Yagi-Uda W02-B04D1

Antenna amplifier W02-B08C5
mast-head amplifiers W02-B08C5A
general RF preamplifiers W02-B08C5C

Antenna applications W02-B08F
aeroplane W02-B08F5
land vehicle W02-B08F1
X22-X02A
marine vehicle W02-B08F2
W06-C01B7
missile or other projectile W02-B08F6
W07-A03
non-communications W02-B10
radar W02-B
W06-A04G7
space vehicle W02-B08F7
W06-B03C

Antenna arrays W02-B05
collinear arrangement W02-B05C
different polarisation radiation W02-B05B8
dipole W02-B05B1
feed system W02-B05A
helical W02-B05B6
horn W02-B05B2
log periodic W02-B05B5

microstrip W02-B05B3
parasitic W02-B04
patch W02-B05B3
phased array W02-B05D
slot W02-B05B2
slotted waveguide feed W02-B05A
Yagi (Yagi per se, W02-B04D1) W02-B05B4

Antenna housing and support W02-B07
collapsible support W02-B07A5
de-icing arrangement W02-B07B
extensible support W02-B07A5
housing W02-B07C
mast W02-B07A1A
mast mounting hardware W02-B07A1C
protective cover W02-B07C
radome W02-B07C
rotary support W02-B06A
stabilising/vibration damping W02-B07A7

Antenna reflector W02-B03B
characterised by shape W02-B03B1
parabolic W02-B03B1A
passive W02-B03B2
planar W02-B03B1B
variable characteristic W02-B03B3

Antibacterial materials for magnetic record carriers T03-A01B5X

Anticollision system
land vehicle on-board system X22-J05
lidar W06-A06H1K
radar W06-A04H1K
sonar W06-A05H1K
warning of unsafe vehicle position (external) X22-E13 T07-E05

Antieavesdropping systems
data communications W01-A05L5
general communications W02-L07C
telephone network W01-C08F1C

Antifungal materials for magnetic record carriers T03-A01B5X

Antifuse
manufacture, integrated circuit U11-C05G2A
memory U14-A06B1
structure, integrated circuit U12-C04

Antihacking arrangements (computing) T01-J12C

Antihunting electric/fluidic measures T06-A02

Antijamming
communication systems W02-L01C
GPS navigation reception W06-A03A5M
lidar systems W06-A06C8
radar systems W06-A04E1C
sonar systems W06-A05C8

Antilock braking system, vehicle X22-C02C3

Antimagnetic shielding for clock or watch S04-A04A1

Antimugging alarms W05-B01D

Antireflective coating for optics P81-T03

Antireflective layer, microlithography U11-C04A1H

Antispam T01-N02B1C

Antiskid braking system, vehicle X22-C02C3

Antislip braking system, vehicle X22-C02C1

Antistatic
aircraft arrangements W06-B01C9
arrangements (general) X25-S
coatings and materials for magnetic record carrier T03-A01B5D
coatings/materials for aerospace vehicles W06-B09
vehicle arrangements X22-X

Antitheft
cable installations X12-G11
cable markings X12-D03C2 X12-D10
vehicle engine immobiliser X22-A08C
vehicle antitheft system Q14-H X22-X03

Antitheft alarms W05-B01
arming/disarming W05-C03
CCTV surveillance W05-B01C5 W02-F01A5
child separation alarms W05-B01A5A
detection system using tags W05-B01A2
elect./magnetic field disturbance actuation W05-B01A
ferromagnetic tag W05-B01A2A
inductive tag W05-B01A2B
mechanical actuation W05-B01B
microwave tag W05-B01A2C
motion detector W05-B01C5A
object separation alarms W05-B01A5C
optical actuation W05-B01C1B
passive intrusion detection W05-B01E
recording equipment (audio/video) W04-J01
ultrasonic actuation W05-B01C1B
vehicle W05-B01 X22-D03A

Antitheft tag for alarm system W05-B01A2
cancelling/deactivating W05-B01A2 W05-C03

AOD (audio-on-demand)
receiver aspects W03-A16C5C
system aspects W02-F10C

Aperture
control in photography S06-B02C
control in digital/video camera W04-M01D5C
correction for video signal W04-P01E5
value calculation in photography S06-B02B
value calculation in digital/video camera W04-M01D2A

Application specific integrated circuits - see ASIC U13-C04D

Approximation, function T01-J04D

Aquarium (domestic) X27-H01
lighting (application) X26-U99

Aqueous electrolyte primary cell X16-A01
dry X16-A01A
metal-air X16-A01B

Arable
agricultural livestock X25-N01
agricultural implement, vehicle-mounted X22-X11
tractors Q19-G X22-P09 X25-N01A

Arbitrary function generation in analogue computer T02-A04B4

Arc control
- circuit breakers X13-B04
- moulded case circuit breakers X13-D07
- switches, low power V03-B06B
- switches, medium & high power X13-A03C

Arc cutting - see Welding, arc X24-B

Arc detection (general) S01-G03

Arc discharge heating X25-B03B

Arc fault current protection X13-C01F

Arc furnace X25-C02

Arc lamp X26-A01A
- construction - see Discharge lamp X26-A02

Arc lamp mfr. - see Discharge lamp

Arc welding - see Welding, arc X24-B
- architectures, computer memory T01-H01

Archery P36-A05
W04-X01K5A

Arcing horn X13-B04

Area measurement S02-A10C
- using electrical/magnetic method S02-A02
S02-A10C
- using mechanical method S02-A01
S02-A10C
- using optical method S02-A03
S02-A10C
- using sound or ultrasound S02-A05B
S02-A10C

ARI
- broadcast system W02-E01B5
- decoder in broadcast receiver W03-B02C5
W03-B08

ARINC data bus systems W06-B01B8

Arithmetic multiplier/divider
- analogue T02-A04B1
- digital T01-E02B

Armature (general) V02-C

Arming
- alarms W05-C03
- weapons W07-C05

Array
- aerial – see Aerial arrays W02-B05
- digital IC - see Digital integrated circuits, with repetitive structure U13-C04
- magnetic head T03-A03A7
- matrix display (general) W05-E01
- matrix display control (general) W05-E01A
- matrix display control (general/computer) T04-H03B
- storage T01-H01B7

Arrester (see Surge arrester)

Arthroscope S05-D04

Article feeding X25-F02
- coil X25-F02
- control T06-D08B
X25-F02
- strip X25-F02
- web X25-F02

Artificial intelligence T01-J16
- control system using AI T01-J16
- expert systems T01-J16A
- fuzzy logic systems T01-J16B
- genetic algorithms T01-J16C4
- heuristics T01-J16C6
- intelligent searching T01-J16C6
- knowledge processing T01-J16C
- learning T01-J16C2
- natural language processing T01-J16C3
- neural network (see Neural network also) T01-J16C1
- pictorial language processing T01-J16C3

Ashing, lithography, semiconductor mfr. U11-C04A1D

Ashtray
- electrical details X27-X
- mechanical details P15-T99

ASIC U13-C04D

ASK U23-P01C1
W01-A09A1

ASR, vehicle X22-A03D1
X22-C02C1
X22-G03B

Assembler/disassembler for data packets W01-A03B

Assembly-line robot X25-A03E2
- control T06-D07B
X25-A03F

Asset tracking X25-A03E2
- goods X25-F11
- military equipment W07-X05
- stolen vehicle X22-D03C
- vehicle T07-A05

Associative memories
- computer memory systems T01-H03B
- memory per se (see Memories also) U14-A05

Astable pulse generators U22-A04A
- blocking oscillator U22-A04A1
- crystal U22-A04A2
- relaxation U22-A04A4
- voltage/current control (VCO) U22-A04A9

Asynchronous induction machine V06-M02B
X11-E
- induction generator X11-E05

Asynchronous transfer mode (ATM) data transmission W01-A03B1

ATC X23-A02C
X23-B02

Athletics P36-A03
W04-X01K3A

ATM data network access W01-A03B1

Atmospheric pressure
- measurement (see also S02-F04 codes) S03-D03

Atomic absorption spectrometry S03-E04A5G

Atomic emission spectrometry S03-E04D3
- inductively coupled S03-E04D3A

Atomic Force Microscope - see also analysing tube
cantilever V05-F04B6A
cantilever manufacture V05-L01B2
circuitry V05-F01B5
manufacture V05-L05F1A
probe V05-F04B6A
probe manufacture V05-L01B2
to measure atomic dimensions S02-A02
S02-A10X
Atomizer P42-A
driving fluid P42-A
P42-T05C
driving work to be sprayed P42-A
P42-T05E
electrical aspects X25-K09
multiple nozzles or jet P42-A03
novel nozzle or spray head P42-A
P42-T01A
reservoir or tank P42-A
P42-T03
variable characteristics P42-A05
ATP X23-A01B5
X23-B02
ATS X23-A01B5
X23-B02
Attaching leads, semiconductor U11-E01
flip chip bonding U11-E01C
gang bonding U11-E01B
tape automated bonding (TAB) U11-E01B
wire bonding U11-E01A
Attenuator
lumped constant type U25-D07
waveguide type W02-A04C
Attitude measurement of S02-B05A
Audible advertising W05-F
Audible indication of measured value
S02-K04A
Audible signalling arrangements W05-A02
combined with visual signalling W05-A04
Audience research systems
radio broadcast W02-D04B
W02-D05
radio broadcast receiver aspects W03-B10R
TV broadcast W02-F04B
TV broadcast receiver aspects W03-A18R
Audio
coding W04-V10
W04-V05G
input/output (computer) T04-F07
magnetic recording head T03-A03
W04-B
mixing W04-G05
recording signal processing - see Audio recording signal processing W04-G01
relaxation, used in medicine S05-A09
signal processing - see Audio signal processing W04-G
signal analysis W04-V01
W04-V04A7
special effects production (musical) W04-U03E
switching W04-G05E
transducers - see Acoustoelectric transducer V06-V
Audio amplifier
balance control W03-C03A
broadcast radio receiver application W03-B04
circuitry details U24-G
W03-C
communication receiver application W02-G03F
constructional details W03-C07
digital W03-C01G
graphic equaliser W03-C05C
hearing aid application W04-Y03A
loudness control W03-C05
power amplifier U24-G01B1
W03-C01C
preamplifier U24-G01C
W03-C01A
public address (PA) application W04-S05A
tone control W03-C05A
TV receiver application W03-A15A
volume control W03-C03
Audio connector - see Connector
Audio player, general W04-E30A3
Audio recording equipment
compact disc (CD) W04-C10A1
construction (general) W04-L05
digital audio tape (DAT) player/recorder W04-B12G
editing W04-H05E
indexing W04-H01
integrated with telephone W01-C01P6A
magnetic record carriers T03-A01C8A
MP3 player W04-G01B8
signal processing - see Audio recording signal processing W04-G01
testing W04-J07
time code recording W04-H01A
Audio recording signal processing W04-G01
coding W04-G01F
copy marking W04-G01L3
copy prevention W04-G01L1
digitising W04-G01F
distortion reduction W04-G01D
drop-out compensation W04-G01D
dynamic recording (general) W04-G01A
error correction W04-G01F1
multiple channel recording W04-G01M
multitrack recording W04-G01M5
noise reduction W04-G01D
recording of separate audio track W04-G01M3
sampling W04-G01F
static recording W04-G01B
static recording applications W04-G01B7
static recording memory addressing W04-G01B5
stereo and surround sound recording W04-G01M1
Audio signal coding W04-V10
AC-2 W04-V10G1C
ATRAC W04-V10G1G
hybrid coding W04-V10G1G
MPEG W04-V10G1
multichannel W04-V10G1J
nonuniform W04-V10C
perceptual coding W04-V10G
predicitive coding W04-V10E
reducing artefacts W04-V10G7
speech coding W04-V05G

standards conversion W04-V10A
subband coding W04-V10G1A
transform coding W04-V10G1C

Audio signal processing
analysis W04-V01
W04-V04A7
acoustic feedback reduction W04-G03C
coding, general W04-V10
coding, speech W04-V05G
compression and expansion W04-G04A
computer-based T01-J18
frequency enhancement and addition of harmonics W04-G04E
improving S/N ratio W04-G03A
mixing - see Sound mixing W04-G05
noise reduction W04-G03
pitch changing W04-V05J1
recording - see Audio recording signal processing W04-G01
reducing acoustic feedback W04-G03C
sample rate conversion W04-V10A
telephone set, speech DSP W01-C01C7
telephone set, non-speech DSP W01-C01Q6C
voice disguising system W04-V09

Audio studio equipment W04-G08

Audio tape recorder W04-B12
construction W04-B12D
control W04-B12C
dictation W04-B12J
digital - see Digital audio tape recorder W04-B12G
dual cassette-deck W04-B12K
head T03-A03
W04-B12A
head and tape transport W04-B12A
interfacing W04-B12C
miniature W04-B12H
personal stereo unit W04-B12H
power supplies W04-B12C
signal processing W04-B12B

Audio transformer V02-F02

Audio-on-demand
receiver aspects W03-A16C5C
system aspects W02-F10C

Audio-visual signalling arrangements W05-A04A

Audio/video equipment (general) W03-G
aircraft application W06-B01C7
bus interconnection system W03-G05C1
cables W03-G07A
casings/housings W03-G01A5
combination equipment W03-G03
combination, in one housing W03-G03A
combination, media centre PC W03-G03A1
combination, mountable in rack W03-G03C
components W03-G07C
connectors W03-G07A
constructional details of equipment W03-G01A
cordless headphones W03-G05C5A
D2B system W03-G05C1
home network W03-G05C1
home theater equipment W03-G03H
in-car entertainment system W03-G08
interconnection W03-G05C
internal construction W03-G01A1
leads W03-G07A
manufacture W03-G10A
mountings W03-G01C
packaging W03-G10G
plugs W03-G07A
portable W03-G04
power supplies W03-G02
recycling W03-G10C
remote control - see Audio/video equipment (general) remote control W03-G05A
requiring operation with PC W03-G06
ship application W06-C01C6
sockets W03-G07A
stands W03-G01C
supports W03-G01C
vehicle application X22-J13

Audio/video equipment (general) remote control W03-G05A
coding format W03-G05A1
combined features (audio, video, etc.) W03-G05A5
extender W03-G05A8
general AV equipment display W03-G05G
learning controller W03-G05A1A
menu-based W03-G05E1
remote unit location system W03-G05A7
transmission format W03-G05A1
transponder-type location system W03-G05A7
with on-screen display W03-G05A6
universal controller W03-G05A1A

Audio/video recording equipment
access control W04-J01A
antitheft arrangements W04-J01
audio compact disc recorder W04-C10A1
audio hard disc recorder W04-B14C1
audio tape recorder W04-B12
automatic music search system (AMSS) W04-H03
casing and construction W04-L05
DAT W04-B12G
dubbing W04-H05A
DVTR W04-B10G
editing W04-H05E
electronic still picture camera W04-M01B1
file server (interactive broadcasting) W02-F10K
W04-K05A
freeze-frame operation mode W04-E20C5
hard disc recorder W04-B14C
high speed operation mode W04-E20A
indexing W04-H01
indexing, table-of-contents W04-H01C
indexing, time code W04-H01A
indexing, user-table-of-contents W04-H01C1
interfacing W04-K
magnetic W04-B
magneto-optical W04-D
measuring travel of carrier W04-H03
mini-disc recorder W04-D20A
MP3 player W04-G01B8
modulator/demodulator W04-K06
multimedia aspects W04-K10
multiple-recording units operation W04-K05A
operating mode W04-E20
optical W04-C
optical disc W04-C10A
search operation mode W04-E20E

simultaneous play and record mode (different sections) W04-E20M
slow speed operation mode W04-E20C1
SMPTE time code recording W04-H01A
synchronisation between recording units W04-K01
testing W04-J07
theft alarms W04-J01C
time code recording W04-H01A
time-lapse recording W04-E20C3
VCR/VTR W04-B10
video hard disc W04-B14C3
video optical disc W04-C10A3

Audio/video recording heads
capacitive T03-C01
magnetic T03-A03
magneto-optical T03-D01C
optical T03-B02B
positioning (general) - see Head

Audiometering, medical S05-D01D2

Auger spectroscopy S03-E06D

Augmented reality (AR) T01-J40C W04-W07E1

Authentication marking
coins/banknotes T05-J
record carriers T03-H02A1C
valuable papers T05-J

Auto-reclosure X13-C01X

Autodiallers, subscriber telephone W01-C01B1
external (e.g. portable) module W01-C01B1D
hands free dialling W01-C01B1B
number storage details W01-C01B1A
OCR input W01-C01B1C
re-dialler (re-router) W01-C01B1F
repertory W01-C01B1A
reply dialling W01-C01B1E
voice dialling W01-C01B1B

Automatic analysis equipment S03-E15
control S03-E15A
specimen preparation S03-E13D1

Automatic answering telephone equipment W01-C01C5
caller telephone number recording W01-C01C5G
centralised call answering, at exchange W01-C02B4
date/time recording W01-C01C5C
dynamic recording W01-C01C5A
integrated with telephone apparatus W01-C01P3
outgoing message (OGM) transmission W01-C01C5E
privacy function W01-C01C5F
remote control playback W01-C01C5D
solid-state memory W01-C01C5B
static recording W01-C01C5B
using tape W01-C01C5A

Automatic band scanning U25-J01

Automatic control system T06-A06
continuous, electric T06-A06A1A
differential characteristics T06-A06A9
discontinuous, electric T06-A06A1D
electric T06-A06A
hydraulic T06-A06B
integral characteristics T06-A06A9
multi-step T06-A06A1D
multi-variable T06-A06A2
multiple input/output-type T06-A06A2
PD characteristics T06-A06A9
PI-characteristics T06-A06A9
PID-characteristics T06-A06A9
pneumatic T06-A06B
proportional characteristics T06-A06A9
pulse train output-type T06-A06A2
two-step T06-A06A1D
using algorithms T06-A05C

Automatic cord winders X12-G10

Automatic focussing
magneto-optical recording head T03-D01D1A
optical recording head T03-B02A1C
photographic camera S06-B01
video camera W04-M01D5D

Automatic frequency control - see AFC U25-J05

Automatic gain control - see AGC U24-C01 U24-C01

Automatic goods retrieval T06-D08C X25-F01A

Automatic phase control
digital U22-H
general U23-D
PLL U23-D01

Automatic rhythm generators W04-U04C

Automatic shelving control T06-D08C X25-F01A

Automatic test equipment

Automatic train/tram control X23-A02C

Autopilots for aircraft W06-B01A5

Auxiliary power supply - see Standby power supply U24-J X12-H02

AV network (home network) W03-G05C1
communication aspects W03-G05C1C
networked media storage W03-G05C1A

Avalanche breakdown diodes U12-C01D

Avalanche photodiode U12-A02B2A

Aviation Q25 W06-B

Avionics connector - see Connector V04-M30A W06-B01C1

Azimuth
correction for magnetic heads T03-A05A
measuring S02-B05

B

Baby
- bottle steriliser X27-B09, X27-X01
- chamber pot X27-X01
- cutlery X27-X01, X27-B09
- food warmer X27-B09, X27-X01
- furniture P26-E
- monitoring alarms X27-X01
- prams Q22-B, X27-X01
- wetting alarm X27-X01

Back scattering
- ionospheric/tropospheric radio communication systems W02-C03X
- nuclear radiation- materials investigation S03-E06C

Back-lighting for displays X26-U04A1
- computer T04-H03D
- LCD module aspects U14-K01A4C

Back up power supply (high) X12-H02
- Diesel generator-based X12-H02A
- rotary X12-H02C
- static X12-H02B

Back up power supply (low) U24-J
- battery back up U24-J01
- capacitor back up U24-J02
- combination of battery and capacitor U24-J04
- for electric vehicle X21-B04
- for motor vehicle X22-F03
- power converter back up U24-J03

Backing layer for magnetic record carrier T03-A01B3

Backplane, digital computer interface T01-C07C

Badge access entry or exit control T05-D01A

Badminton P36-A01, W04-X01K1P

Baggage inspection at airport S03-C, W06-B02A5A

Bagpipes P86-A01A1

Baking, lithography, semiconductor mfr. U11-C04A1A

Balance control, audio W03-C03A

Balanced-to-unbalanced network – see Balun

Balances
- price indicating S02-D02D
- spring S02-F01A
- using elastic materials S02-D01B
- weighing S02-D01A

Balancing, static/dynamic S02-J05

Ball mill P41-A03E

Ball out-of-play detection (sports) P36-A01, W04-X01C1

Ball sports P36-A01, W04-X01K1

Ballast, discharge lamp X26-C01B
- electronic X26-C01B2
- electronic for fluorescent lamp X26-C01B2, X26-C01B5A
- inductive starting circuit X26-C01B1A
- inductive components V02-G, X26-C01B1C
- non-electronic X26-C01B1

Ballistic transistor - see Field effect transistor resonant tunnelling U12-D02J2

Balloons Q25-P01B, W06-B09

Balun
- distributed constant type W02-A02A5
- lumped constant type U25-D03
- transformer V02-F02

Bandages P32-A60

Band gap reference circuit feedback type U24-E02B9

Band gap reference circuit non-feedback type U24-E01C7

Band scanning, automatic U25-J01

Bandstop filter
- digital U22-G01B4
- distributed constant type W02-A05K4
- lumped constant type U25-E05D

Bandwidth control (general) U25-F05

Bandwidth reduction
- audio signal coding (general) W04-V10
- audio signal coding (speech) W04-V05G
- audio signal coding for recording W04-G01F
- facsimile signal S06-K07A4D
- general radio communications W02-G04A
- radio receiver baseband for S/N ratio improvement W02-G03B8
- radio receiver IF for S/N ratio improvement W02-G03B2A
- video signal coding W02-F07, W04-P01A
- video signal coding for recording W04-F01F

Banknote
- actuated appts. T05-H02A
- counting T05-L07
- sorting or delivering T05-K02
- validating, testing T05-J

Barcode
- reading T04-A03B1
- writing T04-A02B

Barcode applications
- goods tracking X25-F11
- inventory/stock control X25-F09
- for military equipment W07-X05
- production line monitoring T05-G02B1
- product code reading (POS) T05-L01C
- telephone dialling W01-C01B1C
- video recorder programming W04-B10C, W04-E04C1

Barograph S02-F04A9

Barrel (packaging container) Q32-A05

Baseball P36-A01
W04-X01K1A

Base layer for magnetic record carrier
T03-A01B1B

Base station for mobile radio
cellular W02-C03C1B
non-cellular W02-C03C3B
transceiver details W02-G02B

Basketball P36-A01
W04-X01K1C

Bassoon P86-A01A1

Bath
electrical details X27-A02A4
for medical use S05-A09
non-electrical details P28-B02
ultrasonic bath for cleaning P43-B07C
X25-H09A

Bathroom equipment P28-B
bathroom linen P28-B03
shower screen P28-B02
wash-stand P28-B01

Battery
AC-mains charger X16-G01
active materials X16-E01
active nanomaterials X16-E01H1
air conditioning X16-K03
applications – see Battery applications
battery classification X16-H04
binder X16-E01J
button-shaped casing X16-F01F1
capacitor X16-L02
casing X16-F01C
casing seal X16-F01A
casing shape X16-F01F
casing shape, button/coin X16-F01F1
casing shape, cylindrical X16-F01F2
casing shape, micro X16-F01F4
casing shape, printed X16-F01F4
casing shape, prismatic X16-F01F3
casing shape, tubular X16-F01F2
charger X16-G
charger, electric vehicle X16-G
X21-B01A1
charger, inductive type X16-G03
charger, non-contact type X16-G03
charger, off-board electric vehicle X16-G01
X21-B01A1C
charger, off-board vehicle X16-G
X22-F01A2
charger, on-board electric vehicle X16-G02
X21-B01A1A
charging indicator, electric vehicle S01-G06A
X16-H01
X21-A06
X21-B01A
charging indicator, vehicle S01-G06A
X16-H01
X22-E03
charging with jumper cables, vehicle X16-G02
X22-F01A1
charging, using battery X16-G02B
charging, using generator X16-G02C
charging, using generator driven by IC engine X16-G02C1
charging, using generator driven by wind turbine X16-G02C2
charging, using solar cell X16-G02A
charging, vehicle X16-G02
X22-F01A
clamp V04-C01
X16-F05
coin-shaped casing X16-F01F1
compartment, for electrical/electronic equipment V04-S03
X16-F06C
connector V04-C01
X16-F05
constructional details X16-F
container X16-F01C
cooling X16-K01
cover X16-F01C
cylindrical-shaped casing X16-F01F2
electrolyte X16-J
electrolyte circulation X16-F04
electrolyte level measurement X16-H02
electrolyte nanomaterials X16-J01E
electrolyte specific gravity measurement X16-H02
exchange, electric vehicle X21-B01E
filler X16-E01J
filler cap X16-F03B
gel electrolyte X16-J01G
getter X16-F09
heating X16-K02
holder, associated with equipment casing X16-F06C
holder, charging X16-F06E2
housing X16-F01C
humidifier X16-K03
internal connection X16-F03A3
inorganic solid electrolyte X16-J01C
jumper cable X16-F05
leasing, electric vehicle X21-B01E
material recovery X16-M
measurements S01-G06
X16-H
measurements, battery classification X16-H04
measurements, electrolyte level X16-H02
measurements, remaining charge X16-H01
measurements, specific gravity X16-H02
measurements, temperature X16-H05
measurements, voltage/current X16-H03
membrane X16-F02
modelling X16-X
molten salt electrolyte X16-J03
nameplate label X16-F09
nanomaterials X16-E01H1
X16-J01E
organic solid electrolyte X16-J01A
pack X16-F06A
packaging carton X16-F09
photoelectrochemical cell electrode X16-E11
pressure relief X16-F03B
prism-shaped case X16-F01F3
primary X16-A
primary, micro X16-A05
primary, printed X16-A05
protection U24-F
X16-X
recycling X16-M
remaining charge measurement S01-G06A
X16-H01

safety device X16-F03B
secondary X16-B01
secondary, lithium X16-B01F1
secondary, lithium with liquid electrolyte X16-B01F1A
secondary, lithium with solid electrolyte X16-B01F1C
secondary, maintenance X16-B09
secondary, micro X16-B01G
secondary, printed X16-B01G
separator X16-F02
simulation X16-X
smart battery X16-H09
solid electrolyte X16-J01
steam separator X16-K01
storage heater X16-L01
surfactant X16-E09
spacer X16-F02
temperature X16-H05
terminal X16-F03A1
terminal post X16-F03A1
testing S01-G06
X16-H
theft prevention X16-F09
thermoelectric battery X15-D
tubular-shaped casing X16-F01F2
valve-regulated lead-acid (VRLA)type X16-B01B
vent X16-F03B
voltage regulator, vehicle X13-H02
X16-G02
X22-F02
zinc-carbon battery X16-A01A

Battery applications
aircraft W06-B01C3
clock or watch S04-B01A
electric vehicle X21-B01A
military equipment W07-J03
portable computer T01-L01
T01-M06A1
portable telephone W01-C01E5B
ship W06-C01C3
spacecraft W06-B03B
vehicle X22-F01

Battery charging X16-G
AC mains X16-G01
by using battery X16-G02B
by using generator X16-G02C
by using IC engine-driven generator X16-G01C1
by using non-contact means X16-G03
by using solar cell X16-G02A
by using wind-driven generator X16-G01C2
camcorder W04-B10C
W04-M01K
W04-M01P5A
cordless telephone W01-C01D1B
W01-C01E5A
electric vehicle X21-B01A1
holder X16-F06E2
personal stereo (tape) W04-B12C
W04-B12H
pod X16-F06E1
portable telephone W01-C01D3C
W01-C01E5A
subscriber telephone W01-C01E5A
subscriber telephone from battery or solar source W01-C01E5C
subscriber telephone from generator W01-C01E5D
vehicle X22-F01A
video camera W04-M01P5A
video tape recorder W04-B10C

Battery electrode X16-E
active complex oxide material X16-E01C1
active material X16-E01
active material manufacture X16-E01G
active material, binder X16-E01J
active material, filler X16-E01J
active material, nano-sized X16-E01H1
active oxide material X16-E01C1
alkaline accumulator X16-E05
binder X16-E01J
carrier X16-E02
collector X16-E02
conductive material X16-E01E
depolariser X16-E07
filler X16-E01J
fuel cell X16-E06A
grid X16-E02
hybrid cell X16-E06C
inorganic active material X16-E01C
lead-acid accumulator X16-E04
lithium-based non-aqueous electrolyte secondary cell X16-E08A
material X16-E
material structure X16-E01H
material, active X16-E01
metal-air hybrid cell X16-E06C1
metal-halogen hybrid cell X16-E06C2
metal-hydrogen X16-E05C
nickel-cadmium cell X16-E05A
non-aqueous electrolyte cell X16-E08
non-aqueous, primary cell X16-E03A
organic compounds X16-E01A
photoelectrochemical cell X16-E11
plate X16-E02
polymer active material X16-E01A1
primary cell X16-E03
sodium-sulphur cell X16-E10
support X16-E02

Battery electrolyte X16-J
aqueous X16-J07
fused salt X16-J03
gel X16-J01G
gel, inorganic X16-J01C
gel, organic X16-J01A
holder X16-J09
liquid X16-J02
matrix X16-J09
molten salt X16-J03
non-aqueous X16-J08
solid X16-J01
solid, inorganic X16-J01C
solid, organic X16-J01A

Battery holder X16-F06C
X16-F06E2
compartment X16-F06C
compartment, electronic equipment V04-S03
X16-F06C
electrical/electronic equipment V04-S03
X16-F06C
charging X16-F06E2

Battery materials recovery X16-M
Battery measurements – see Battery testing
Battery protection U24-F
X16-X
Battery saving, power supply U24-K
portable telephone W01-C01D3C
W01-C01E5B
Battery testing S01-G06
X16-H
classification S01-G06
X16-H04
current measurement S01-D01
S01-G06
X16-H03
electric vehicle battery X21-A06
X21-B01A
measuring remaining battery capacity
S01-G06A
X16-H01
smart measurement S01-G06
X16-H09
voltage measurement S01-D01
S01-G06
X16-H03
BCH error correction U21-A06A9
W01-A01B1
Beacon systems for navigation W06-A01
fixed W06-A01A
portable W06-A01C
Beach volleyball P36-A01
W04-X01K1W
Beam deflection coil
analysing/processing tube V05-F04C1A
V05-F04C5
CRT V02-F01A
V05-D01B
V05-D06B1A
W03-A08A1B
manufacture V02-H01
Beam indexing for CRT TV display W03-A08A5E
Beam rider missile guidance W07-A01E1
Beam steering for aerial W02-B06
automatic directional control W02-B06C
electronic W02-B06B
mechanical W02-B06A
variable polarisation W02-B06E
Beam treatment, semiconductor
alignment, lithography U11-C04B3
electron beam U11-C03B
etching, localised U11-C07A2
ion beam U11-C03B
laser treatment U11-C03D
laser treatment apparatus U11-C09G
lithography, beam control U11-C04A6
lithography, masking techniques U11-C04D
particle beam U11-C03E
scribing U11-C07A4
Bearings Q62
clock or watch S04-A05
disc drive spindle T03-F02C3C
T03-N01
electric machines V06-M10
X11-J05X
magnetic head support arm T03-A05C5
of machine, testing S02-J03A
vehicle wheel Q11-A06
Q62-G
X-ray tube rotary anode V05-E01B1A
V05-E01H1
Bed P26-B02
manufacture P26-M
Bed clothes absence alarm X27-X
Bed linen P27-B02
Bed wetting detector X27-X
Bed-of-nails connector, PCB V04-B01
V04-M05
V04-R06G1A
Bed-of-nails test probe S01-H03A
V04-R06G1A
Beer/alcoholic beverage
brewing equipment, industrial scale X25-P01B
brewing equipment, domestic scale X27-X02
dispenser X25-F03B1
dispenser, domestic X27-X02
mat X27-X02
wine cellar X27-X02
Bells W04-U09
W05-A02
Belt tension measurement S02-F03A
Belt, photoconductor S06-A01A9
Bench P26-A
manufacture P26-M
Bending, metal X25-A02D
control T06-D05A1
X25-A02D
engraving systems X25-X10
Bernoulli effect
fluid speed measurement S02-G02B
magnetic head positioning for discs T03-A05C1A
T03-A05F1
Betatron X14-G02
Bevelling, semiconductor wafer U11-C06A1A
Beverage vending machine T05-H06
X25-F03B1
Bias circuit for amplifier U24-G03G1
Biasing integrated circuit substrate U13-E02
Biasing magnetic recording heads T03-A06G
T03-A03C9N
BiCMOS integrated circuit structures U13-D03B
Bicycle Q19-A
X22-P01
electric X21-A01C
exercise (static) P36-A06
W04-X01A5A
Bidirectional power converter – See Converter
BiFET integrated circuit structures U13-D03B
Billboard P85-E01A
W05-E03A1
Billiards (game) P36-A01
W04-X01K1E
Billing
data networks W01-A06E1E
subscription TV/broadcasting W02-F10N5

telephone W01-C06E
Bimetal thermometer S03-B01D
Bimetal thermostat V03-C06B1
BIMOS memories - see Memories, with FET and bipolar U14-A03B5
Binaural dummy head V06-V02G
W04-R01C1
Binder for output paper in copier S06-A18A
Binder material
electrophotographic photoconductor S06-A01A3
magnetic V02-A09
magnetic recording medium T03-A01A3
Binding, ski safety release force measurement S02-F03A
P36-A03
P36-A08A
P36-M
W04-X01E
W04-X01H
W04-X01K3P
Binoculars S02-B09
optical elements for P81-A50A
Biochips for instrumentation S03-H01A
integrated circuit aspects U13-D04B
Biocomputer data processing elements T01-E05D
Bioelectric current measuring S05-D01A
EEG S05-D01A2
electrocardiograph S05-D01A1
electrodes for electrocardiograph currents S05-D01A1A
electrodes for neurological currents S05-D01A2A
EMG S05-D01A2
SQUID S05-D01A2
Biofuel – power generation using X15-E
constructional details X15-W
control, monitoring & testing X15-V
Biological analysis processing T01-J13A
Biological materials analysis
biological fluids S05-C02
S03-E14H2
biological tissues S05-C03
blood S05-C01
blood - see also Blood S03-E14H1
bone S03-E14H9
breath S03-E14H9
enzymes S03-E14H5
S05-C09
for medical diagnosis, general S05-C
immunoassay S03-E09F
S05-C09
nucleic acids S03-E14H3
proteins S03-E14H5
S05-C09
saliva S03-E14H9
tissue samples S03-E14H6
S05-C03
urine S03-E14H9
S05-C02
Biological warfare agents
analysis S03-E14L
Bioluminescence measurements S03-E04E
Biomass power generation X15-E
constructional details X15-W
control, monitoring & testing X15-V
Biometrics
body shape or feature, general S05-D01C5A
fingerprint-based T04-D07F2
image recognition-based T04-D07F
iris recognition-based T04-D07F1A
voice recognition-based W04-V04A3A
Biosensors (see also Biological materials analysis) S03-E14H
electrochemical S03-E03C1
using optical fluorescence S03-E04D
using optical scattering S03-E04C
using optical transmission S03-E04B1A
Biphase level coding U21-A05C
Bipolar ICs
amplifiers U24-G04A1
pulse generators U22-A02A1
structures - see Integrated circuit structures, bipolar U13-D01
Bipolar transistor - see Transistors, bipolar
Bird scarer X25-N01
Bistable pulse generators U22-A04C
Black box recorder (aircraft) W06-B01B6
Blanker, receiver noise W02-G03B5
Blanket treatment, semiconductor U11-C03J3
Blanket, electric X27-E02
ohmic resistance heating X25-B01C3A
X27-E02
Blanking
noise in radio receiver W02-G03B5
TV CRT display W03-A08A7
video signal generator W04-M05
Blasting
electrical X25-D01
non-electrical Q79-A09
Blasting machine X25-A03C2
control T06-D07A
X25-A03C2
X25-A03F
Blind
electrical details X27-T
manufacture P27-M
non-electrical details P27-C
Bloch line memory U14-A01A1
Block codes, general error correction U21-A06A
CRC U21-A06A1
Hamming codes U21-A06A3
parity bit U21-A06A2
Reed Solomon coding U21-A06A4
Block code data transmission, error detection/correction W01-A01B1
using parity W01-A01B1A
Reed Solomon coding W01-A01B1C
Blocking oscillator, astable pulse generation U22-A04A1
Blocking reduction, radio receiver W02-G03B4E

Blockwise coding for secret data communication W01-A05A
wireless W01-A05A1
Blood
analysis (general) S03-E14H1
dialysis S05-H01
in vitro analysis, medical S05-C01
in vivo composition measurement S05-D01G
measuring blood flow and cardiac output S05-D01B1B
oxygen content measurement, medical S05-D01G
oxygen content measurement, optical S03-E04A4
pressure measurements S05-D01B1A
S02-F04C2
pumping systems S05-H02
transfusion S05-H02
treatment circuits S05-H01
Blower X25-L04
Bluesnarfing prevention in mobile phones W01-C01D3C
W01-C01Q8E
Bluetooth ®
interface W01-A07H2A
network (LAN) W01-A06B5A
W01-A06C4A
Board games P36-C01
W04-X02B
Boat – see ship Q24
W06-C
Bode plots S01-D05C
Body, human
bone content measurement S05-D01J
impedance measurement S05-D01D1
mineral content S05-D01J
movement, non medical measurement S05-D01C5A
shape or movement, medical measurement S05-D01C5
temperature measurement S05-D01E
Bolometer S03-A03
Bonding pads for semiconductor device
manufacture U11-C05G2B
pads per se U11-D03B1
Bonding, semiconductor layers U11-C01
for SOI, IC component isolation U11-C01
U11-C01J8A
U11-C08A6
insulating or semiconductor substrate U11-C01
U11-C01J8A
Bonds, semiconductor
gang, attaching leads U11-D03A2
U11-E01B
inspection U11-F01E
metallurgical details U11-D03B1
wire U11-D03A2
U11-E01A
Bone analysis S03-E14H9
Books
application P76-C09
binding P76-A
X25-T
binding apparatus P76-A02
binding method P76-A01
covers P76-B
special printed matter P76-C
newspapers P76-C01
postcards P76-C02
Boom for spraying apparatus P42-A03C
P42-T01A
Booting/initialisation T01-F05B
sleeping T01-F05B3
Borehole logging - see Well logging
Boring X25-A03B
control T06-D06
X25-A03B
X25-A03F
Bottling X25-F03A
Bourdon tube S02-F04A1
Boxing (sport) P36-A04
W04-X01K4A
BPSK U23-P01A3
W01-A09B
Brachytherapy S05-A03X
Braille
clock S04-B07
computer printer T04-G09
devices, general S05-K
T04-X
Brake Q63-D
disc drive T03-F02C5
T03-N01
electric machine (mechanical) V06-M10
X11-J05A
electric machine, control V06-N05
X13-H01B
electric train/tram X23-A01B
electric vehicle X21-A03
electrically-driven X25-L02
testing S02-F03B
vehicle (see Vehicle for brake details) Q18-A
X22-C02
vehicle, testing S02-J02B
X22-X16
vehicle, theft prevention X22-X03
Branching for TDM systems W02-K02B3
Branching, program control T01-F03A
Brass - see Metallurgy
Braun tube V05-D01B
Brazing X24-A09
Breadmaker X27-C08
Breakdown diodes U12-C01D
Breakdown voltage testing S01-G03
Breaking strain - see Fatigue testing
Breath analysis S03-E14H9
S05-C09
Breathalyser S03-E14H9
S05-C09
Breathing measurement S05-D01C1
Bridge rectifier, package for U11-D01B3

Bridges
applications Q41-A20
constructional details Q41-A05
constructional materials Q41-A05G
foundations Q41-A05B
structural components Q41-A05A
types of bridge e.g. suspension Q41-A01
Bridgman crystal growth U11-B02B
Briefcase X27-A02C
Broaching X25-A03C1
control T06-D07A
X25-A03C1
X25-A03F
Broadband ISDN W01-C05B7E
Broadcast distribution systems
BML T01-J11C1
W02-F05C
W02-F07M1
cable distribution (for cable TV see CATV) W02-D01
DAB W02-D05C1
W02-K07C
data network W01-A06E1A
DVB W02-F07M1
interactive - see Interactive broadcast and entertainment systems W02-F10
internet radio T01-N01D1A
W02-D05C5
mobile telephone network W01-B05A1M
satellite radio W02-D05A
satellite TV W02-F06A
television - see Television systems
W02-F
testing, sound broadcasting W02-D04
testing, TV broadcasting W02-F04
wired distribution (sound) W02-D01
Broadcast markup language (BML) T01-J11C1
W02-F05C
W02-F07M1
Broadcast radio receiver W03-B
additional information reception W03-B08
AFC U25-J05
W03-B01B
AGC U24-C01
W03-B02A
AGC, novel aspects W03-B02A1
AGC, IF stage W03-B02A5
AGC, RF stage W03-B02A3
AGC, other W03-B02A9
AM demodulator U23-K
W03-B02C1
audience research aspects W03-B10R
band scanning U25-J01
W03-B01B
car W03-B03
casing W03-B05A
channel storing W03-B01B1
channel storing, channel listing-based
W03-B01B1C
channel storing, location-based W03-B01B1E
channel storing, RDS-based W03-B01B1C
W03-B08
channel storing, receivable stations-based
W03-B01B1A
channel storing, user controlled W03-B01B1G
channel switching arrangements W03-B01B3
component mounting W03-B05B
construction W03-B05
control W03-B10C
DAB receiver W03-B06E
decoder, RDS W03-B02C5
W03-B08
decoder, stereophonic W03-B02C3
demodulator W03-B02C1
digital architecture receiver W03-B07
digital broadcast receiver W03-B06
digital rights management (DRM) W03-B06J
direct conversion W03-B01A6
display W03-B01C
displaying text-based information W03-B08C1A
displaying graphics and images W03-B08C1C
diversity circuits W02-C03A
W03-B01A9
DSP applications W03-B07A
dual tuner W03-B01D
emergency broadcast reception W03-B08C7
EPG W03-B08C5
FM demodulator U23-L
W03-B02C1
frequency control system W03-B01B5
homodyne W03-B01A6
housings W03-B05A
IF amplifier W03-B02B5
IF filter W03-B02B1
input filter W03-B01A1
integrated with telephone W01-C01P6E
interfacing W03-B10E
internal construction W03-B05B
internet broadcast receiver W03-B06C
local oscillator W03-B01A7
low IF receiver W03-B01A6C
mixer W03-B01A5
mixer, image rejection W03-B01A5A
mounting kit W03-B05A
multiple tuner W03-B01D
'now playing' display W03-B08C5
PCB W03-B05B
RDS W03-B08
RDS decoder W03-B02C5
RF amplifier W03-B01A3
satellite radio broadcast receiver W03-B06A
self-testing W03-B10A1
spoken bulletin reproduction W03-B08C3
stereophonic decoder W03-B02C3
storage, memory aspects W03-B08A7
storage, message or bulletin W03-B08A1
storage, programme content W03-B08A5
synchrodyne W03-B01A6
synthesiser tuning W03-B01B
testing W03-B10A
transport information reception W03-B08C4
tuned circuits W03-B01A1
tuner circuitry W03-B01A
tuner construction W03-B01A8
weather information reception W03-B08C4
zero IF receiver W03-B01A6A
Bronze - see Metallurgy
Browser T01-N03A1
chat windows T01-N03A1C
media player T01-N03A1B
Brushes P24-E
manufacture details P24-M

Brush, current collection
helical scan head signal coupling T03-A05D3G
manufacture, low power motor V04-P02
V06-M11A
manufacture, medium & high power motor V04-P02
X11-J08A
motor, low power V04-L01B
V06-M12
motor, medium & high power V04-L01B
X11-J03
repair, low power motor V04-P02
V06-M11M
repair, medium & high power motor V04-P02
X11-J08M

Brushless AC/DC machine
speed regulation X13-H01E
permanent magnet V06-M03A
X11-H01A
permanent magnet, speed regulation X13-H01E1
sensorless V06-M03C
X11-H01C
sensorless, speed regulation X13-H01E3
switched reluctance V06-M03B
X11-H01B
switched reluctance, speed regulation X13-H01E2

BS - see DBS

Bubble memory
magnetic U14-A01A1
thin magnetic film V02-B02

Buchholz relay X13-C02
transformer protection X12-C02B
X13-C04B

Bucket Q32-A05

Bucket brigade device U13-A02A

Buffers for digital computer interface T01-C07C2

Building, construction (electrical aspects)
X25-U
door X25-U01
window X25-U01

Buildings, general mechanical construction and structural elements
Q43-A
access Q46-A03
blinds Q48-A
ceilings Q43-A03
construction aids Q46-A
doors Q43-A05
drainage Q45-B
fittings e.g. for doors and windows Q47-B
floors Q43-A04
Q45-F
frames e.g. door, window Q48-B
girders Q44-A01CA
manufacture Q43-M
Q44-M
Q45-M
material handling Q46-A05
pillars Q44-A01B
protection e.g. against fire, theft Q48-P05
reinforcement components Q44-A01G
roof Q43-A02
roof coverings Q45-A
safety and protective arrangements Q46-A04
scaffolds Q46-A01
service and access Q43-A07
shutters Q48-A
stairs Q45-E
support structures, other Q44-A01X
tools, used for building Q45-D
trusses Q44-A01C
ventilation Q48-J
walls Q43-A01
windows Q43-A06

Buildings, uses ; special structures Q46-B

Built-in self test for integrated circuit U11-F01D2
U13-C07

Built-up welding, arc X24-B01

Bumps, semiconductor device - see Contact bumps

Bundled conductor X12-D02X

Burglar alarms W05-B01
CCTV surveillance W05-B01C5
detection system using tags W05-B01A2
electric/magnetic field disturbance actuation W05-B01A
false alarm prevention W05-B01
W05-C02C5
ferromagnetic tag W05-B01A2A
image scanning/comparing W05-B01C5A
inductive tag W05-B01A2B
intrusion detection system W05-B01A1
mechanical actuation of W05-B01B
microwave tag W05-B01A2C
motion detection video actuation W05-B01C5C
optical actuation W05-B01C2
passive acoustic intrusion detection W05-B01E
ultrasonic actuation W05-B01C1
vehicle X22-D03A

Burn in
probes/contacts for IC testing S01-H03
U11-F01C1
U11-F01G
test for integrated circuits S01-G02B5
U11-F01C3
U11-F01G

Burnishing X25-A03C3
control T06-D07A
X25-A03C3

Burying solid waste P43-E03

Bus bar
conductor X12-D02C1A
X12-G03
high power X12-D02C1A
installation X12-G03
low power V04-H01
manufacture X12-D07E1A
protection X13-C04X
switchgear X13-E04A

Bus configuration, data networks W01-A06B1

Bus, computing
common bus access request handling T01-H05B3
control T01-H07A2
I/O bus access request handling T01-H05B2
memory bus access request handling T01-H05B1
structure T01-H07A

structure (type) T01-H07A1
transfer protocol T01-H07B

Business equipment - see Personal article X27-A02C

Business models T01-J05A2A
advertising T01-J05A2C
T01-N01A2C
auctions T01-N01A2A
copyright management T01-J05A2G
T01-N01A2G
e-procurement T01-N01A2B
financial brokerage T01-N01A2F
government T01-J05A3
T01-N01A3
insurance T01-J05A2E
T01-N01A2J
Intellectual Property T01-J05A2G
T01-N01A2G
inventory monitoring / management T01-J05A2D
marketing T01-J05A2C
T01-N01A2C
online shop T01-N01A2A
personnel management T01-J05A2H
T01-N01A2H
resources analysis T01-J05A2C
stock and shares T01-J05A2F
value chain service provider T01-N01A2E
workflow T01-J05A2B

Buzzers W05-A02
piezoelectric, communication V06-V01B
V06-V04C
piezoelectric, general V06-V01B

BWR X14-A02

C

Cabinet
audio/video equipment (general) W03-G01A5
broadcast radio receiver W03-B05A
communications receiver W02-G03H
computer peripheral T04-L01
non-electrical details P25-C
recording equipment (general) T03-L05A
TV receiver W03-A09A1
video tape recorder W04-B10D
W04-L05A

Cable
armour X12-D03B1
armouring removal X12-G01B
audio-video W03-G07A
X12-D05B
break location X12-G01C
cable dispensing reel X12-G10
clamp X12-G04A2
coaxial X12-D05M
color coding X12-D03C2
communication X12-D05A
composite, optical fibre and electric V07-F01B4
X12-D08
composite, power and signal X12-D09
conduit X12-G04A1
conduit, ground X12-G04A1
conduit, rigid X12-G04A1A
conduit, flexible X12-G04A1C
conduit, fittings X12-G04A1E
conductor X12-D02C
conductor, non-insulated X12-D02C
conductor, non-insulated high power X12-D02C1
conductor, non-insulated low power X12-D02C2
conductor manufacture X12-D07E
conductor manufacture, high power X12-D07E1
conductor manufacture, low power X12-D07E2
conductor, stranded X12-D03R
connector, electrical V04
X12
connector, earthing/grounding X12-G02D
construction X12-D03
contact-type X12-D03J
control X12-D05C
cooling X12-D03C1A
X12-G02X
crimping ferrule X12-G02A
crimping terminal X12-G02A
crimping, high power X12-G01E
crimping, low power V04-P01A
cutting X12-G01E
defect indication X12-D03B2
drum X12-D07X
X12-G09
duct X12-G04A1
duct, ground X12-G04A1
duct, rigid X12-G04A1A
duct, flexible X12-G04A1C
duct, fittings X12-G04A1E
earthing X12-G01F
end connection X12-G02B
extensible X12-D03A2
fault location S01-G05
X12-G01C

fire-retardant X12-D03C
fitting X12-G02X
flat X12-D03A1
flat, connector V04-B02
V04-M04
flexible X12-D03A2
floating-type X12-D03K
for computer equipment T01-L03
gas pressure maintenance X12-G02X
harness X12-D03M
harness manufacture V04-V02
X12-D07D
heat conduction X12-D03C
heat dissipation X12-D03C
heat protection X12-D03C1
heat shielding X12-D03C
heat-shrinkable cover for junction X12-G02C1
hf X12-D05J
high speed data X12-D05L
installation, aircraft W06-B01C1
X12-G04A
installation, building X12-G04A
installation, bushing X12-E03A
X12-G04A3
installation, ceiling X12-G04A
installation, clamp X12-G04A2
installation, floor X12-G04A
installation, grommet X12-E03C3
X12-G04A3
installation, ground X12-G04
installation, relatively movable parts X12-G08
installation, ship W06-C01C1
X12-G04A
installation, vehicle X22-X01B
installation, wall X12-G04A
installing, building X12-G01A7
installing, digging trenches X12-G01A7A
installing, duct X12-G01A7D
installing, ground X12-G01A7D
installing, submarine X12-G01A7G
installing, underwater X12-G01A7G
instrumentation X12-D05C
insulating X12-D07B
insulating by extrusion X12-D07B1
insulating by liquid bath X12-D07B1
insulating by spraying X12-D07B1
insulating by winding on tape X12-D07B9
insulation X12-D03D
insulation removal, high power X12-G01B
insulation removal, low power V04-P03
insulation, disposition X12-D03D
insulation, material X12-D03D
X12-E01
X12-E02
jacket X12-D03B1
joining X12-G01E
joining, high power superconducting
X12-G01E1
joining, low power superconducting V04-P10
joint X12-G02C
joint, protective cover X12-G02C
junction X12-G02C
junction, protective cover X12-G02C
ladder X12-G04A1
ladder, rigid X12-G04A1A
ladder, flexible X12-G04A1C
ladder, fittings X12-G04A1E
lf X12-D05K
lightning protection arrangement X12-G01F
location S03-C02
X12-G01C
losses reduction in armour X12-D03B3
losses reduction in conductor X12-D03B3
losses reduction in sheath X12-D03B3
loudspeaker X12-D05B
low power X12-D05
lubricating layers X12-D03G
maintenance/repair X12-G01D
manufacture - see Cable manufacture X12-D07
marking X12-D03C2
marking machine X12-D07X
marking, circuit identification X12-G01A7J
oil pressure maintenance X12-G02X
optical - see Optical cable V07-F01B4
overhead, installing equipment/method
X12-G01A1
power X12-D04
protection X12-D03B1
X12-D03H
protection, chemical attack X12-D03H
protection, corrosion X12-D03H
protection, force X12-D03B1
protection, mechanical X12-D03B1
protection, pressure X12-D03B1
protection, termite X12-D03H
protection, water ingress X12-D03H
reel X12-D07X
X12-G09
ribbon X12-D03A1
ribbon, connector V04-B02
V04-M04
rigid tube-type X12-D03L
safety arrangement X12-G01F
salvaging X12-D07X
screen X12-D03E
sensor-type X12-D03J
sheath X12-D03B1
shield X12-D03E
shielded twisted pair X12-D05N
splice X12-G02C
splice, protective cover X12-G02C
spool X12-D07X
STP X12-D05N
submarine-type X12-D03K
superconducting X12-D06A
superconducting material X12-D06B
superconducting metal alloy X12-D06B1
superconducting, manufacture X12-D06A1
superconducting, metal alloy
manufacture X12-D06B1A
superconducting, oxide manufacture
X12-D06B2A
superconducting, oxide material X12-D06B2
superconductor cable connector/fitting
X12-G02G
telephone X12-D05A
telephone, fittings W01-D02
telephone, installations W01-D03
telephone, installing W01-D01
terminal X12-G02B
terminating X12-G01E
terminating, high power superconducting
X12-G01E1
terminating, low power superconducting
V04-P10
termination X12-G02B

testing (with fault location) S01-G05
testing (without fault location) S01-G12F
X12-G01C
testing, general (e.g. short circuit) S01-G04
X12-G01C
X12-G07F
theft prevention X12-D03C2
trays X12-G04A1
trays, fittings X12-G04A1E
twisted pair X12-D05N
unshielded twisted pair X12-D05N
UTP X12-D05N
vibration damper X12-G02F
X12-G05
winding for transformer X12-C01B2A
X12-C01E

Cable manufacture X12-D07
armouring X12-D07A
conductor X12-D07E
conductor stranding-up X12-D07C
harness V04-V02
X12-D07D
high power conductor X12-D07E1
impervious material coating X12-D07A
insulating X12-D07B
insulating by extrusion X12-D07B1
insulating by liquid bath X12-D07B1
insulating by spraying X12-D07B1
insulating by winding on tape X12-D07B9
low power conductor X12-D07E2
low power conductor, fibres X12-D07E2C
low power conductor, nanofibre X12-D07E2A
low power conductor, nanowire X12-D07E2A
marking X12-D07X
salvaging X12-D07X
screening X12-D07A
sheathing X12-D07A
superconducting X12-D06A1

Cable television systems - see CATV W02-F03A

Cache memories T01-H03A

Caching, Network T01-N01D4

CAD (Computer-aided design) T01-J15
CPU design T01-J15A1
design verification T01-J15B
digital data networks W01-A06D
digital filters and DSP U22-G03A5
electrical circuit/hardware design T01-J15A
electrical network design T01-J15A4
integrated circuit design T01-J15A2
U11-G
logic circuit design T01-J15A1
U21-C03D
non-electronic applications T01-J15X
of electrical systems using simulation T01-J15A3
PCB design T01-J15A2
V04-R11
simulation of non-electronic systems T01-J15H
simulation of radio networks T01-J15A4
W02-C03E5
wiring layout T01-J15A2

Cadmium mercury telluride - see AII-BVI compounds

Cadmium selenide - see AII-BVI compounds

Cadmium sulphide - see AII-BVI compounds

Cadmium telluride - see AII-BVI compounds

CAE T06-A07A

CAI T06-A07A

CAN W01-A06B5A
W05-D06F
vehicle CAN bus X22-K03
electric vehicle CAN bus X21-K

Calibration
A-D converters - see Analogue-digital converter, testing and calibrating U21-A03F1
antenna systems W02-B08A5
antenna set-up based on geographical position W02-B08A5C
S02-B
W06-A03
antenna set-up based on optimum reception W02-B08A5A
calorimeters S03-B02
cameras, video/television W04-M01D2J
dimension, angle, area, etc. measurement S02-A07
electrical instruments S01-H01
engineering instruments S02-K07
flowmeters S02-C07
general S01-J02
geophysics devices S03-C10
level indicating S02-C07
nuclear radiation measurement S03-G05
optical instruments S03-A05C
optical test equipment, materials investigation S03-E04P
pressure measurement S02-F04F
radar systems W06-A04E3A
scientific instruments S03-H03C
special purpose measurement of force S02-F03X
speed/acceleration measurement S02-G07A
surveying/navigation equipment S02-B10
television cameras W04-M01D2J
thermometers S03-B01H3
transducers S02-K07
video cameras W04-M01D2J
volume and mass flow measurement S02-C07
weighing appts. S02-D07

Calipers, measuring S02-A01B

Call screening in subscriber telephones W01-C01F5

Call system, for nursing staff S05-G02D

Caller identification (telephone)
caller ID transmission W01-C02B3C
caller ID withholding W01-C02B3E
exchange /general W01-B03C
subscriber set display W01-C01F3

Calorimeters S03-B02

Calorimetry S03-B02
S03-E01C

CAM (Computer-aided manufacturing) T01-J07B
T06-A07A

Camcorder
hard disk recording W04-B14C3
W04-M01K
optical disk recording W04-C10A3
W04-M01K

solid-state recording W04-M01K W04-P01C8
Camera
digital W04-M01B1
digital, integrated with telephone W01-C01P6C W04-M01B1
electronic still type (digital) W04-M01B1
photographic - see Camera, photographic S06-B
video - see Video camera W04-M01
Camera, photographic S06-B
aperture and exposure calculation S06-B02B
display S06-B01C
electronic flash S06-B03A
electronic flash control S06-B03A X26-C01A
exposure control S06-B02
eye gaze direction monitor to denote subject S06-B01E
film loading detection S06-B08B
film winding S06-B08A
flash S06-B03 X26-C01A
lens positioning S06-B01B1
lighting (digital camera), application X26-U11A
lighting (film-based camera), application X26-U11B
motorised control for instant-picture S06-B08
pre-light emission S06-B03A1
remote control S06-B02C1
timer actuation S06-B02C5
viewfinder display S06-B01C
Camping equipment P24-D
Can (packaging container) Q32-A05
Canals – see Hydraulic engineering
Can crusher
domestic X27-X
reverse vending T05-H02E
Can opener X27-B04
Cancelling sound by destructive interference (electronic) **W04-V07**
Capacitance element - see Capacitor
Capacitance measuring S01-D05A3
for materials investigation S03-E02C
in capacitor manufacture S01-D05A3 S01-G12C V01-B01G7C V01-B04C1
Capacitance multiplier U25-C
Capacitance spectroscopy S03-E02C5
Capacitive
conversion of sensor output S02-K03A1C
touch screen T04-F02A2 U21-B02C1
touch switch U21-B02C1
transducers involving mechanical variation S02-K03A1C V01-B02A5C
transducers without mechanical variation S02-K03A1C V01-B02B3
Capacitive coupling for control or measurement signals W05-D06T5
Capacitive recording T03-C01 W04-D
head T03-C01
head positioning T03-C01 T03-G
record carrier T03-C01
record carrier positioning T03-C01 T03-F
Capacitive voltage transformer (CVT) S01-D01D3 X12-B
Capacitor V01-B
capacitive transducers - see Variable capacitor S02-K03A1C V01-B02A5C V01-B02B3
casing V01-B03D3
ceramic dielectric V01-B03A
characterised by structure/type V01-B03C
chip V01-B03C5
composite capacitor (RC, LC, etc.) V01-B03C8
disk V01-B03C3
double-layer - see Electrolytic capacitor V01-B01D X16-L02
electret - see Variable capacitor, non-mechanical V01-B02B5
electrochemical, double layer V01-B01D5
electrodes V01-B03D1
electrodes, film V01-B03D1A
electrolytic - see Electrolytic capacitor V01-B01
encapsulation V01-B03D3
external electrodes, chip capacitor V01-B03C5 V01-B03D5
feedthrough V01-B03C7
ferroelectric, integrated circuit U12-C02F
film capacitor (discrete chip type only) V01-B03C5A
film electrodes V01-B03D1A
fixed V01-B03
flat plate V01-B03C3
foil electrodes V01-B03D1C
folded V01-B03C3
fuse protection V01-B03E5
housings V01-B03D3
inorganic dielectric V01-B03A
inorganic dielectric composition V01-B03A1
lead arrangements V01-B03D5
manufacture - see Capacitor manufacture V01-B04
marking V01-B04C5
markings, component value V01-B03D3
MIS - see Semiconductor capacitor U12-C02A
MOS - see Semiconductor capacitor U12-C02A
mounting kit V01-B03D7
multilayer V01-B03C3A
organic dielectric V01-B03B
organic dielectric composition V01-B03B1
p-n junction - see Semiconductor capacitors U12-C02B
power X12-B
preset - see Variable capacitor, mechanical V01-B02A5B
protection by disconnection V01-B03E5

pseudo-capacitor V01-B01D
seal V01-B03D3
self-healing dielectric type V01-B03E1
semiconductor - see Semiconductor capacitor U12-C02
stacked V01-B03C3A
super-capacitor V01-B01D5
terminals V01-B03D5
testing - see Capacitor manufacture S01-G12C V01-B04C1
transducer - see Variable capacitor S02-K03A1C V01-B02A5C V01-B02B3
trimmer - see Variable capacitor, mechanical V01-B02A5B
ultracapacitor V01-B01D5
varactor/varicap diode - see Variable capacitor, non-mechanical U12-C02B V01-B02B1
variable - see Variable capacitor V01-B02

Capacitor bank X12-B
distribution/transmission line reactance compensation X12-H01A2A X12-H01A2C
load side reactance compensation X12-H01A2B X12-H01A2C
power factor correction X12-B X12-H01A2
protection X13-C04X

Capacitor manufacture V01-B04
application of electrodes V01-B04B3
bandolier V01-B04E
chip capacitor V01-B04A5
co-firing V01-B04A3C V01-B04B7
dielectric treatment V01-B04B1
drying V01-B04B7
electrodes V01-B04B3
electrolytic - see Electrolytic capacitor mfr V01-B01G
film capacitor V01-B04A5A
firing V01-B04B7
heat treatment V01-B04B7
impregnating V01-B04B5
laminating V01-B04B5
leadless capacitor V01-B04A5
multi-layer V01-B04A3C
packing V01-B04E
pressing V01-B04B5
semiconductor devices U11-C05G1B
separating chip capacitors into individual units V01-B04A5 V01-B04B9
shipping V01-B04E
tape carriers V01-B04E
testing S01-G12C V01-B04C1
treatment of dielectric V01-B04B1
trimming value V01-B04C3
winding V01-B04B5
wound capacitor V01-B04A1
multistep mfg processes V01-B04B8A

Capacitor, fixed - see Capacitor V01-B03

Capacitor, variable – see Variable capacitor V01-B02

Capstan for tape recorder T03-E07

Car crusher P41-A01 P41-U03 P41-U20

Car park X25-U02
parking control T07-F

Car radio (broadcast) W03-B03 X22-J13
circuitry - see Broadcast radio receiver W03-B
electronic antitheft arrangement W03-B03A1
RDS W03-B08

Car wash Q16-A01 X25-H09C

Card
entry or exit control T05-D01A
feeding T04-A05
IC T04-K V04-Q02A3
magnetic T04-C01
mechanism actuated by T05-H02C
memory T04-K03D
optical recorder/player W04-C10C
optical T04-C02
playing card dealing equipment W04-X02B
punching or reading T04-A01
reader, point of sale T05-L01B
semiconductor package U11-D01A7
smart T04-K01 V04-Q02A3

Card games P36-C05 W04-X02B5

Cardboard manufacture X25-T09B

Cardiac
cardiac massage S05-A05A
defibrillator S05-A01B
pacemaker S05-A01A
rate measurement S05-D01B5

Carding
control, yarn T06-D03B X25-T01
yarn X25-T01

Carpet P27-B04

Carpet cleaner machine X27-D08

Carpet shampooing machine X27-D08

Carpet, electrically-heated
ohmic resistance heating X25-B01C3B X27-E01A3

Carriage switch X13-A04E

Carrier concentration, measurement for semiconductor device U11-F01A1

Carrier data transmission systems W01-A09
ASK W01-A09A1
demodulator W01-A09E2
FSK W01-A09A2
layered modulation W01-A09C5
modulator W01-A09E1
MSK, W01-A09B
minimum shift keying W01-A09B
multifrequency codes W01-A09D
PSK W01-A09B
QAM W01-A09C1
repeaters W01-A06G5G W01-A09

Carrier material in photoconductor S06-A01B
Carrier mobility, measurement for semiconductor device U11-F01A1
Carrier tapes
connections to chip terminals, semiconductor packages U11-D03A2
electrolytic capacitor mfr. V01-B01G7E
fixed capacitor mfr. V01-B04E
semiconductor package transport U11-F02A4
terminals for semiconductor packages (TAB tape) U11-D03A1B
Cartesian measurements S02-A10G
Cartridge
fuse, electric X13-D01
tape T03-H01B
T03-N03
transducer, gramophone pick-up V06-V04A3
W04-A02
Cascaded amplifier U24-G02F5
Cascode amplifier U24-G02F7
Case
battery X16-F01
cell X16-F01
clock or watch S04-A04
electronic equipment V04-S
Cash point T05-L03
construction T05-L03E
control system T05-L03C1
depositing T05-L03A1
dispensing T05-L03A5
receiving T05-L03A1
security system T05-L03C5
Cash register T05-L01A
Cashbox T05-L05
Casing
electronic clock or watch S04-B09
EMI-shielded, electronic appts V04-S09
V04-U03
for computer peripheral T04-L01
magnetic heads T03-A03J7
Casino games P36-C09
W04-X02E
Casks Q42-A05
Cassette, tape T03-H01B
constructional details T03-H01B3
drives T03-E
drives, manual control T03-E05B
drives, mode control T03-E05
drives, speed control T03-E03A
integral tape cleaner T03-H01B5
T03-H02B
loading and changing T03-E01B
looping and threading T03-E01C
magnetic head cleaning T03-A04B3B
manufacture T03-H01B8
protective arrangement T03-H01B5
Casting
continuous X25-A01
control T06-D05B
X25-A01
metal X25-A01
Catalysis S03-E09B
Cathode
cold (general) V05-M03A
cold (general), current limiting arrangements V05-M03A3
CRT V05-D05C
microfabricated cold type-see Microfabricated cold cathode device V05-B05
solid thermionic (general) V05-M02
sputtering appts V05-F04B5C
Cathode ray oscilloscopes S01-C01
Cathode ray tube
display arrangements in TV receiver W03-A08A
display control, computer peripheral type T04-H01
tube per se - see CRT V05-D
Cathode ray tube drive circuitry
TV receiver W03-A08A
VDU T04-H01
Cathodic sputtering X25-A04
CATV
ancilliary receiver equipment W03-A16C
cable TV receiver W03-A16C1
cable fittings W02-F03A9
head-end details W02-F03A5
interactive W02-F03A
W02-F10A
microwave distribution W02-F03A7
optical fibre network W02-F03A3
receiver converter W03-A16C1
receiver converter W03-A01A5
system W02-F03A
CCD
circuits, drivers U13-A02B
electrode formation U11-C05F6
U11-C18B3
Image production S06-D05
copier S06-K99B
facsimile S06-K99D
manufacture U11-C18B3
optical filter manufacture U11-C18D
U13-A02X
optical filters U13-A02X
packaging aspects U13-A02C
scanner T04-M
S06-D10
shift stores U14-A01B
structure U13-A02A
testing U11-F01C5
U13-A02
video camera application W04-M01B
CCTV W02-F01
burglar alarms W02-F01A5
W05-B01C5
calibrated system for measuring dimensions W02-F01D
component inspection in mfg. Process W02-F01C
entry-phone W01-C04A1
W02-F01A1
free-space link W02-F01F
intruder alarms W05-B01C5C
medical use S05-D
W02-F01M

process control W02-F01B
radio link W02-F01F
surveillance use W02-F01A
vehicle external viewing W02-F01E
X22-E09A

CD audio player W04-C10A1

CD video player W04-C10A3

CD-I W04-C10A

Ceilings – see Buildings, general mechanical construction and structural elements

Ceiling fan X27-E01B1

Cell
button-shaped casing X16-F01F1
casing X16-F01C
casing seal X16-F01A
casing shape X16-F01F
coin-shaped casing X16-F01F1
constructional details X16-F
cylindrical-shaped casing X16-F01F2
dye-sensitised solar X15-A02D1
electrolysis, non-metal prodn. X25-R01A
electroplating X25-R04A
filler cap X16-F03B
internal connection X16-F03A3
membrane X16-F02
organic solar X15-A02F
micro primary X16-A05
micro secondary X16-B01G
packaging carton X16-F09
photoelectrochemical U12-A02
X15-A02D
X16-A04
photovoltaic U12-A02A
X15-A02A
primary, electrode X16-E03
printed primary X16-A05
printed secondary X16-B01G
prism-shaped case X16-F01F3
safety device X16-F03B
separator X16-F02
solar U12-A02A
X15-A02A
spacer X16-F02
terminal X16-F03A1
terminal post X16-F03A1
testing S01-G06
X16-H
thermophotovoltaic U12-A02A9
X15-A02E
tubular-shaped casing X16-F01F2
vent X16-F03B

Cellular radio systems **W02-C03C1**
3G W02-C03C1G
4G W02-C03C1H
W02-K07C
applications W02-C03C1J
base station equipment W02-C03C1B
cellular radio telephone system W01-B05A1A
W02-C03C1A
fixed location cellular radio access W01-B05A1G
GSM W01-B05A1A
W02-C03C1A
hand-off system W02-C03C1D
location register details W01-E01C1
LTE (long term evolution) W02-C03C1H
mobile apparatus W02-C03C1C
mobile location determination W02-C03C1E
mobile radio telephone W01-C01D3
registering mobile subscriber W01-E01C3
subscriber roaming W01-E01A
system operation W02-C03C1A

Central heating system **X27-E01A1**
control (unspecified system) X27-E01A
warm air circulation X27-E01A1
warm air circulation, control X27-E01A1
water circulation X27-E01A1
water circulation, control X27-E01A1

Central office (telephone exchange) **W01-C02G1**

Central station alarms **W05-B05**

Centralised control logic for telephone switching **W01-B02A1**

Centrex telephone exchange **W01-C02G**

Centrifugal switch **V03-C06C**

Centrifuge P41-J
X25-J

Ceramic packages, for semiconductor devices **U11-E02A2**
assembly U11-E02A2
hermetic seals U11-E02A2
mountings U14-H05
package per se U11-D01A1

Ceramics
analysis S03-E14D4
insulator, electrical X12-E01A

Cerenkov detectors S03-G02B2

CFAR (Constant false alarm rate)radar
W06-A04E5

Chaff, radar systems W02-B03B2A
W06-A04E1A

Chain switch V03-C03

Chainsaw X25-A03
timber industry X25-X01

Chair P26-A
cinema/theatre chair P26-A01C
constructional details P26-A10
dentist chair S05-E02
P26-A01B
P33-A10
electrical details X27-A03
folding chair P26-A01D
home/office chair P26-A01A
hairdressers/barbers chair P26-A01B
manufacture P26-M
vehicle seat P26-A01F

Chalcogenide/chalcopyrite semiconductor
electronic switching circuits U21-B01P
layer deposition U11-C01J4
logic circuits U21-C01P
memory circuits U14-A03H
photoreceiver U12-A02B5X
semiconductor structure U12-E01A4
solar cell U12-A02A2E

Chamfering, semiconductor wafer U11-C06A1A
U11-C15A

Chaos, generation U23-F05

Character
generator, for CRT display T04-H01A1
hand written, computer input T04-F04
hand written, recognition T04-D07E
recognition process T04-D04
recognition system T04-D
recognition, color T04-D08
recognition, image acquisition T04-D02
recognition, image preprocessing T04-D03
recognition, uses of T04-D07
recognition, using code marks T04-D01
single, display control T04-H03A

Charge coupled devices - see CCD U13-A02

Charge elimination
electrophotography S06-K06B

Charge injection devices - see CCD U13-A02

Charge pump power supply U24-D02A1
phase lock loop application U23-D01A3C

Charge storage screen for cathode ray tube V05-D05A5

Charge transfer devices - see CCD U13-A02
with array of semiconductor diodes V05-D05A5A

Charity organisations **T01-N01A4**

Chart recorders S02-K05
S06-K99E
recording elements for S02-K06B

Check validating and testing T05-J

Checkers (game) P36-C01
W04-X02B1

Checking - see Testing
dimension measuring equipment S02-A07

CHEMFET S03-E03C
U12-D02A
U12-D03E

Chemical indicator S03-E09E
observing color change of S03-E04E
temperature history of foods S03-B01X

Chemical laser V08-A04B

Chemical mechanical polishing – see Polishing and polishers

Chemical mechanical polishing, semiconductors
appartus U11-C06A1A
endpoint detection U11-C06A1C
process U11-C06A1A
CVD appts., gas delivery heads U11-C09B1

Chemical sensors, semiconductors U12-B03E

Chemical strips S03-E09E

Chemical testing S03-E09
catalysis S03-E09B
chemical indicator, general (see also S03-E04E) S03-E09E
chemisorption S03-E09A
chromatography S03-E09C
combustion analysis S03-E09B
gas chromatography S03-E09C1
ion exchange S03-E09B
ion exchange chromatography S03-E09C5
liquid chromatography S03-E09C5
precipitation S03-E09A
thin layer chromatography S03-E09C3
titration S03-E09D

Chemical vapour deposition, semiconductor mfr. plasma CVD appts. U11-C09B
U11-C09C

Chemical vapour deposition, CVD appts. gas delivery heads U11-C09B1

Chemical vapour deposition, conductive layer U11-C05C3
localised deposition U11-C05C5

Chemical vapour deposition, insulating layer U11-C05B2

Chemical vapour deposition, semiconductor layer U11-C01B
laser assisted CVD U11-C01B1
low pressure CVD U11-C01B
metal-organic CVD U11-C01B
photochemical CVD U11-C01B
plasma enhanced CVD U11-C01B
reactive CVD U11-C01B
CVD appts. U11-C09B

Chemical warfare agents analysis S03-E14L

Chemiluminescence S03-E04E

Cheque validating and testing T05-J

Chess (game) P36-C01
W04-X02B1

Chimney Q46-B10

Chip capacitor - see Capacitor V01-B03C5

Chip carriers
digital computer interface T01-C07C
packages for IC U11-D01A3
substrates for IC packages U11-D01A
testing/inspection U11-F01E

Chip inductor V02-F01L

Chip resistor - see Resistor V01-A02D

Chip terminals U11-D03

Choke coil
hf V02-F01
power supply V02-G01C
smoothing U25-E02
V02-F01J
variable, hf V02-F01D
variable, power supply V02-G01C1

Chopper modulation amplifier U24-G02E

CHP, combined heat and power - see cogeneration power plant
fossil fuels X11-C04
non-fossil fuels X15-K

Christmas decorations
non-electrical details P27-B06
Christmas lighting X26-M
X26-X
W04-X03C

Christmas lighting X26-X
W04-X03C

Chroma keying W04-N05C5A

Chromatography S03-E09C
affinity S03-E09C5
gas S03-E09C1
gel permeation S03-E09C5

HPLC S03-E09C5
ion exchange S03-E09C5
liquid S03-E09C5
size exclusion S03-E09C5
thin layer S03-E09C3

Chromatography detectors S03-E09C7
electrochemical S03-E09C7F
electron capture S03-E09C7E
flame ionisation S03-E09C7D
ionisation S03-E09C7D
katharometer S03-E09C7C
mass spectrometric S03-E09C7B
optical S03-E09C7A
photoionisation S03-E09C7D
thermal conductivity S03-E09C7C

Cigarette lighter
electrical lighter X27-G01
mechanical details P15-T99
vehicle X22-J06

Cigarette mfr. X25-P03
P15-M
control T06-D02
X25-P03

CIM T06-A04B7

Cinematography S06-B05
cinema equipment S06-B05
W04-X03G5
video processing W04-N05G3

Circuit
electrical testing S01-G01
general manufacture - see General circuit mfr. V04-V

Circuit assembly
general - see General circuit mfr. V04-V
hybrid U14-H04B
PCB - see PCB mfr. V04-R

Circuit breakers
air-break, with built-in arc control X13-B02
air-break, with separate arc control X13-B03A
air-break, without arc control X13-B01
arc extinguishing/prevention/detection X13-B04
arcing horns X12-F01A
X13-B04
casings X13-B09
contacts - see Contacts X13-A
CTs V02-G01B
X12-C01G
X13-B09
DC applications X13-B09
disconnectors X13-B01
driving mechanisms X13-B05
fuses, electrical - see Fuses, electrical X13-D01
fuses, thermal - see Fuses, thermal X13-D12
fuse-switches X13-B01
gas-break, with built-in arc control X13-B02B
gas-break, with separate arc control X13-B03A1
interlocks X13-B09
isolators X13-B01
liquid-break, with built-in arc control X13-B02
liquid-break, with separate arc control X13-B03
maintenance X13-B08
manufacture X13-B08
measurements X13-B08
microprocessors X13-B08B
monitoring X13-B08
moulded case type - see Circuit breaker, moulded case X13-D
oil-break, with built-in arc control X13-B02
oil-break, with separate arc control X13-B03
optical fibre sensors X13-B08A
protectors (not covered elsewhere) X13-D09
PTs V02-G01B
X12-C01G
X13-B09
repair X13-B08
sectionalisers X13-B01
SF6 circuit breakers X13-B03A1A
testing S01-G10
X13-B08
thermal cutoff X13-D12
thermal fuse X13-D12
thermal protector X13-D12
vacuum circuit breaker X13-B02A
vents for arc products X13-B09

Circuit breaker, moulded case
arc control X13-D07
casings X13-D06
color coding, terminals X13-D06
combined EM and connections X13-D06
contacts - see Contacts X13-A
cutoffs, thermal X13-D12
earth leakage current type X13-D05
ELCB X13-D05
electrodynamic release X13-D09
electromagnetic release X13-D04
electrothermal release X13-D03
fuses, thermal X13-D12
indicators, operation X13-D06
induced-current release X13-D09
induction-motor release X13-D09
interlocking X13-D09
latching mechanism X13-D20C
locking X13-D09
logic - see Logic circuits U21-C
magnets, arc blow out X13-D07
manufacture X13-D08
markings, distinguishing X13-D06
miniature circuit breaker X13-D11
monitoring X13-D08
mountings X13-D06
name plates X13-D09
operating mechanism X13-D20D
overload type, with hand-reset
overload type, with power-reset
overload type, with separate overvoltage type X13-D05
protectors (not covered elsewhere) X13-D09
protectors, thermal X13-D12
rating plates X13-D09
RCCB X13-D05
release mechanism X13-D20C
reset mechanisms X13-D04A
residual current type X13-D05
sensing mechanism X13-D20A
solid state circuit breaker X13-D10
terminals X13-D06
testing X13-D08
thermal cutoffs X13-D12

thermal fuses X13-D12
thermal protectors X13-D12
thin film U14-H01
trigger mechanism X13-D20B
underload type X13-D05
under-voltage type X13-D05
resetting action X13-D02C
electrothermal release X13-D03A
mechanism X13-D02A
mechanism X13-D02B

Circuit breaker/protector, applications
aerospace X13-U03
aviation X13-U03
boats X13-U04
industrial machines X13-U06
military X13-U05
railway X13-U02
road vehicles X13-U01
ships X13-U04

Citizens band radio W02-G02

Clamp ammeter S01-D01D1

Clamping circuits, video signal
general application W04-P01K
TV receiver application W03-A04C

Clarinet P86-A01A1

Clay pigeon shooting (sport) P36-A05
W04-X01K5E

Clean room
air conditioning, semiconductor manufacture U11-C15B1
air filter semiconductor manufacture U11-C15B1
air quality S03-E14N3
facilities, semiconductor manufacture U11-C15B1
gas supply apparatus (see also specific CVD, plasma apparatus) U11-C15B1
magnetic record carrier mfr. T03-A02B9
particle counting S03-F06C
U11-C15B1
protective clothing, semiconductor manufacture U11-C15B1

Cleaning
air blast P43-B05
aircraft Q25-R10
blade, in electrophotography S06-A10A1
car wash Q16-A01
X25-H09C
cassette for magnetic heads T03-A04B3B
cassette tape within cassette T03-H01B5
T03-H02B
T03-N03
cleaning equipment P28-C
computers and peripherals T04-L08
disinfection X27-D10
domestic - see Cleaning appliance X27-D
electrolytic X25-R06
electronic component (general) V04-X01D
electrophotographic charge removal S06-A10B
electrophotographic ozone removal S06-A10B
electrophotographic toner removal S06-A10A
electrophotography S06-A10
floor cleaning X27-D05
gas blast P43-B05
general P43-B
ground/soil decontamination X25-H04
industrial X25-H
industrial workspace X25-H05
leads, semiconductor device/integrated circuit U11-E02B3
lenses P81-A01
P81-G
lithography, semiconductor mfr. U11-C04A1A
magnetic heads T03-A04B3
materials for semiconductor mfr. U11-A10
U11-C06A1B
optical record carrier during mfr. T03-B01E3L
plasma processing apparatus V05-F05C
V05-F05E9
railway train Q21-M01
recording disks/cards/tapes etc. T03-H02B
road X25-U05
scraper, in electrophotography S06-A10A1
semiconductor wafers U11-C06A1B
sewage treatment Q42-E
X25-H03
ship Q24-R10
sputtering, dry etching, deposition, plasma appts., semiconductor mfr. U11-C09F
stamper, optical record carrier mfr. T03-B01E3L
sterilisation X27-D10
water treatment X25-H03
ultrasonic P43-B07C
X25-H09A
V06-V04C

Cleaning appliance X27-D
carpet cleaner X27-D08
carpet shampooing machine X27-D08
cleaning equipment (non-electrical) P28-C
dish drier X27-D09
dish washer X27-D01B
drier, clothes X27-D02
domestic, clothes line X27-D06
domestic, mixed mode X27-D07
bubble systems X27-D07G
fabric enhancement X27-D07M
using chemicals X27-D07K
using radiation X27-D07C
using steam/vapour X27-D07E
using vibration X27-D07A
floor polisher, domestic X27-D05
floor polisher, industrial X25-H09
floor washer X27-D05
mangle, clothes drier X27-D09
robotic vacuum cleaner X27-D04R
shoes X27-D09
sweeper X27-D05
trouser press X27-D09
ultrasonic X27-D07A
using radiation X27-D07C
vacuum cleaner X27-D04
vacuum cleaner, dual cyclone X27-D04C
washing machine - see Washing machine X27-D01
wringer, clothes X27-D09

Climbing (sport/leisure) P36-A06
W04-X01K9

Climate control X27-E01C
for aircraft W06-B01C5
for electric vehicle X21-C02
for motor vehicle X22-J02E1

for railway train X23-A10
for ship W06-C01C5

Clipper, garden X27-A01A

Clock
acoustical time indication S04-B05
alarm, in electronic type S04-B05
alarm, in mechanical type S04-A02X
antimagnetic shielding S04-A04A1
balance, oscillator S04-B02A
battery S04-B01A
BPM-synchronised S04-B06
Braille S04-B07
S05-K
buzzer S04-B05
case S04-A04
casing, for electrical type S04-B09
chain S04-A01
clock/watch housing S04-A04A
combined radio-alarm S04-B05
cuckoo S04-B08
date, local time, or tide indication S04-A02B
DCF-77-synchronised S04-B06
electrical aspects S04-B
electrical winding S04-B01A
electro-optic display S04-B04A
electronic display S04-B04
framework, bearings, calipers S04-A05
glass S04-A04
hands, dial, or drum S04-A02A
HBG-synchronised S04-B06
illumination, in mechanical type S04-A02X
JJY-synchronised S04-B06
laser, maser oscillator S04-B02X
locking bar S04-A03
manufacture and materials S04-A04B
master-slave system S04-B06
mechanical aspects S04-A
mechanical construction aspects S04-A04A
mechanical drive mechanism S04-A01
motion, e.g. movable drum S04-B08
motor driven S04-B01B
MSF-synchronised S04-B06
musical animation S04-B05A
oscillator S04-B02
parts S04-A
pendulum, oscillator S04-B02A
power supply S04-B01A
quartz oscillator S04-B02B
radio transmission for setting S04-B03
S04-B06
ringing, in mechanical type S04-A02X
setting, for electrical type S04-B03
spring S04-A03
striking, in mechanical type S04-A02X
synchronous-motor S04-B06
TDF-synchronised S04-B06
test gear S04-D
time signal transmission S04-B06
timer S04-C02
timing chain, for electrical type S04-B03
tuning fork, oscillator S04-B02A
varying clock frequency in computer T01-K01
water-proofing S04-A04A2
weights S04-A01
winding S04-A03
WWV-synchronised S04-B06

Clock signal
computer system synchronisation T01-K
data transmission synchronisation W01-A04
integrated circuit U13-E04
memory synchronisation circuit U14-A07C
recording T03-J03C

Clock-in time registering T05-G03

Closed circuit television systems W02-F01
burglar,antitheft,intruder alarms W05-B01C5
calibrated system for measuring dimensions W02-F01D
combined with alarm W02-F01A5
component inspection in mfg. W02-F01C
entry-phone W01-C04A1
W02-F01A1
medical use W02-F01M
S05-D
process control W02-F01B
surveillance use W02-F01A
vehicle external view W02-F01E
X22-E09A
vehicle internal view X22-E09C

Closed-caption TV receiver S05-K
W03-A10G

Cloth manufacture X25-T04B
control T06-D03C
X25-T04B

Clothes P21
apron P28-A99
baby/children clothes and linen P21-K
belts, suspenders P21-L
coats, jackets P21-C
collars, cuffs P21-T01
electrical details X27-A02B1
gloves, scarves, ties, bow-ties P21-H
headwear P21-F
lining, sleeves and pockets P21-T01
manufacture P21-M
novel constructional materials P21-T50
oven gloves P28-A99
protective clothing P21-N
skirts, dresses P21-B02
sportswear P21-D
t-shirts, shirts, vests P21-A
trousers, shorts P21-B01
undergarments, hosiery, nightwear P21-E

Clothes drier X27-D02

Clothes line X27-D02L

Clothes washer X27-D01A

Clothing - see Personal article, clothing
X27-A02B1
military specific W07-F01B
non-electrical details P21
sports clothing P36-A08A
vehicle/motorcycle specific Q14-C16
X22-J11C

Clutch Q63-B
electric machine V06-M10
X11-J05A
electrically-driven X25-L02
for electric vehicle X21-A02A
for motor vehicle Q13-A03
X22-G01

CMOS - see Integrated circuit structures, CMOS U13-D01A
CNC T01-J07B
T06-A04A2
machine tool T06-D06
X25-A03F
Coagulation properties S03-F03
Coal-fired power plant X11-A
Coating equipment X25-K05
Coating thickness measurement - see Thickness
Coating, luminescent for discharge tube (general) V05-M01
Coaxial cable X12-D05M
connector V04-F
V04-M01
V04-M03
V04-M30G
Coaxial connector - see Connector, electrical
Code
block code error detection/correction U21-A06A
conversion - see Code conversion U21-A05
W01-A02
convolution code error detection/correction U21-A06C
W01-A01B2
data transmission, error detection/correction by block code W01-A01B1
data transmission, error detection/correction by interleaving W01-A01B5
dot-and-dash, data transmission W01-A07A
equal-length, data transmission W01-A07B
error correction (general) U21-A06
error correction for data transmission W01-A01B
error correction for recording T03-P01A
hybrid coding scheme W01-A01B4
interleaving error detection/correction (general) U21-A06E
pseudonoise (PN) code details W02-K05B5
Code conversion U21-A05
biphase level U21-A05C
compression U21-A05A2
data transmission W01-A02
expansion U21-A05A2
language script U21-A05D1
Manchester U21-A05C
parallel U21-A05A1
parallel/series U21-A05B
run length codes (to or from) U21-A05A2B
stochastic codes (to or from) U21-A05A1
variable length codes (to or from) U21-A05A2A
Code converters, static U21-A05A
Code division multiplexing W02-K08
direct sequence spread spectrum W02-K05A7
Code excited linear predictive (CELP) speech encoding W04-V05G3A
Codes
data transmission, error correction/detection W01-A01B
error correction, digital computers T01-G01A
error correction/detection (general) U21-A06
pseudonoise (PN) W02-K05B5
secret data communication, blockwise W01-A05A
Coding
audio signals (general) W04-V10
audio signals (recording) W04-G01F
audio signals (speech) W04-V05G
compression, general U21-A05A2
digital computer data T01-D02
error correction, general U21-A06
error correction, telecoms W01-A01B
general U21-A05
image compression T01-J10D
secret communication W01-A05
video(general) W04-P01A
video(recording) W04-F01F
Coefficient of thermal expansion, measuring S03-E01A
Coffee grinder X27-B03
Coffee maker X27-B01
Coffee percolator X27-B01
Coffins and accessories P33-A50
Cogeneration power plant
fossil fuels X11-C04
carbon footprint reduction X11-C08
catalytic converter X11-C08
control X11-C10
environmental protection X11-C08
monitoring X11-C10
operation X11-C10
testing X11-C10
non-fossil fuels X15-K
constructional details X15-W
control, monitoring & testing X15-V
Cognitive radio systems W02-C03G5
Coherent detection U23-P01J3A
Coil
CRT convergence V02-D
V05-D01B3
V05-D06B1
W03-A08A5A
CRT degaussing coil V02-D
V05-D01B3
V05-D08A5
flat, hf V02-F01N
handling X25-F02
handling control T06-D08A
X25-F02
hf V02-F01
magnetic head T03-A03J5
V02-F05
poloidal, fusion reactor X12-C01B1
X12-C01F
X14-A03
printed, hf V02-F01N1
V04-Q04
printed, manufacture V02-H01A
V04-R
telecommunication-type V02-F01
telephone line loading V02-F01
W01-C08E
W02-C01B
testing S01-G12E5

toroidal, fusion reactor X12-C01B1 X12-C01F X14-A03
vehicle ignition V02-G01 X22-A01A
winding, high power X12-C01D2
winding, low power V02-H01

Coil/winding
connection (general) V02-D
general V02-D
inductor, hf V02-F01 V02-F03B
inductor, power X12-C01B1
inductor, power supply V02-G01C V02-G02B
insulating V02-H01 X12-C01D2
insulator, hf inductor V02-F03B1
insulator, hf reactor V02-F03B1
insulator, hf transformer V02-F03B1
insulator, power supply inductor V02-G02B1
insulator, power supply reactor V02-G02B1
insulator, power supply transformer V02-G02B1
magnetic recording head T03-A03J5 V02-F03B V02-F05
manufacture, electromagnet (high power) X12-C01D2
manufacture, electromagnet (low power) V02-H01C
manufacture, electromagnet for printer T04-G01 V02-H01C3
manufacture, electromagnetic relay V02-H01C1 V03-D06B
manufacture, electromagnetic valve V02-H01C2 X25-L01A
manufacture, high power reactor X12-C01D2
manufacture, high power transformer X12-C01D2
manufacture, low power reactor V02-H01A
manufacture, low power transformer V02-H01B
manufacture, magnetic recording head T03-A04A1C V02-H05
manufacture, other low power devices V02-H01X
manufacture, power supply transformer V02-H01B
manufacture, power transformer X12-C01D2
manufacture, solenoid V02-H01C
motor, high power X11-J02
motor, low power V06-M08
reactor, hf V02-F03B
reactor, power X12-C01B1
superconducting, high power X12-C05
superconducting, low power V02-E02X
testing, high power X12-C01D3
testing, low power V02-H08
transformer, hf V02-F02 V02-F03B
transformer, power X12-C01B2
transformer, power supply V02-G01A V02-G02B

Coin
counting T05-L07
non-electrical details P23-C30
sorting or delivering T05-K01
sorting or delivering, in coin freed appts. T05-H03
validating, testing T05-J

Coin freed appts.
coin mechanism T05-H01
coin sorting, testing T05-H03
copier S06-K99B
dispensing electricity T05-H06
dispensing fluid, granular material T05-H06
facsimile T05-H05C S05-K99D
games, amusements T05-H05E W04-X02A
hiring articles T05-H05A
individual item dispensing T05-H04
supermarket trolley lock T05-H05A1
telephone T05-H05C W01-C07A5

Coin holder, personal T05-L05B

Coin operated appts. - see Coin freed appts.

Cold cathode
analysing tube V05-F04A3
analysing tube, current limiting arrangements V05-F04A3C
display V05-D05C5
display V05-D05C3
display, current limiting arrangements V05-D05C5C
display manufacture V05-L05D1A
fluorescent lamp X26-A01E1
for display V05-D05C5, V05-D01C3
general V05-M03A
general, currrent limiting arrangements V05-M03A3
mfr., for discharge tubes V05-L01A3
micro cold cathode devices (e.g. triode) V05-B05
micro cold cathode devices (e.g. triode), current limiting arrangements V05-B03B1A
micro-fabricated V05-M03A1

Cold cathode device
heat pumps V05-B05A3X
microfabricated - see Microfabricated cold cathode device U12-B03D
microminiature (e.g. triode) - see Microfabricated cold cathode device V05-B05

Cold cathode tube V05-B03
anodes V05-B03B5
cathode V05-B03B1
complete novel tube V05-B03B8
current limiting arrangements V05-B03B1A
grid V05-B03B3
lead-in conductors V05-B03B7
manufacture V05-L05B3
microminiature - see Microfabricated cold cathode device V05-B05
tube details V05-B03B
vessel V05-B03B7

Cold conductor V01-A02A7B
Cold nuclear fusion X14-A03A
Collator
batch, in non-computer printing S06-C09
copier S06-A12C
general record carriers T04-J02
Collector
batch, in non-computer printing S06-C09
electric train/tram X12-G02E
X23-A04
electric trolley bus X12-G02E
X21-B03
electric vehicle X21-B03
Colonoscope S05-D04
Colorimetry S03-A02C
Color
change, for time indication S04-C07
facsimile S06-K01
measurement S03-A02C
pattern recognition T04-D08
photocopying S06-K01
printer, for computer S06-K01
separation, for plate production S06-C02B
Color coder W04-Q05
Color coding of cable insulation X12-D03C2
Color coding of resistor value V01-A01D
Color organ W04-U08
Color separation, for printing S06-C02B
Color signal processing
demodulation circuit in TV receiver W03-A05D
in computer printer S06-K01
S06-K07A
in copier S06-K01
S06-K07A
in facsimile S06-K01
S06-K07A
recognition of standard in TV receiver W03-A05D1
video recording W04-F01D
Color television systems (analogue) W02-F02
Comb filter
analogue U25-A03
digital U22-G01B5
RF waveguide W02-A05A3
Combat-based sports P36-A04
W04-X01K4
Combination connector V04-M12
Combination cooker X27-C07
Combination oven X27-C07
Combined cycle power plant
fossil fuels X11-C03
carbon footprint reduction X11-C08
catalytic converter X11-C08
control X11-C10
environmental protection X11-C08
monitoring X11-C10
operation X11-C10
testing X11-C10
non-fossil fuels X15-J
constructional details X15-W
control, monitoring & testing X15-V
Combing X25-T04A
control, yarn T06-D03B
X25-T04A
Combustion X27-G
Q73-A
analysis by S03-E09B
boiler heat recovery X27-G
burner construction Q73-T01
calorimetry S03-E01C
combustion chamber Q73-T03
control X27-G02
Q73-B
control, air/fuel supply X27-G02
control, draft X27-G02
control, flame monitor X27-G02
control, flue gas X27-G02
detection of, S03-E14R
damper X27-G
extinguishing devices Q73-T12
filters Q73-T06
fluid circulation/flow Q73-T02
fluidized bed construction Q73-T10
fuel, pre-treatment Q73-T05A
fuel feed system Q73-T05B
fuel nozzle Q73-T05C
fuel used Q73-A15
biomass fuel Q73-A15D
gaseous fuel Q73-A15C
liquid fuel Q73-A15B
solid fuel Q73-A15A
gas/liquid/solid fuel X27-G
grates Q73-T04
igniter X27-G01
Q73-T11
maintenance Q73-G
recycling of components Q73-R
reducing flame noise X27-G
repair Q73-G
safety/protection Q73-T20
start-up details Q73-A03
types of combustion Q73-A
using catalytic material Q73-A01
burners Q73-A02
cremation furnaces Q73-A05
fluidized bed combustion Q73-A04
Combustion (applications)
boiler Q73-U27
burner X27-G
central heating X27-E01A1
X27-G
domestic X27-G
food industry Q73-U07
industrial X25-X13
Q73-U40
metallurgy Q73-U26
underwater use Q73-U45
waste disposal/treatment Q73-U20
water heating X27-E03
X27-G
Combustion analysis S03-E01C
S03-E09B

Comfort noise generation
general speech signal processing W04-V05G6
silence detection aspects W04-V04A1
telephone speech signal processing W01-C01C7A
Commercial air conditioning system - see Air conditioning X27-E01B
Commercial heating system - see Heating X27-E01
Commercial message
detection in TV receiver W03-A18A5G
local storage W03-A16G
recording prevention W04-E04C5C
selective insertion W02-F10Q5
transmission monitoring W02-F04C5
TV broadcasting, general W05-E03C
Commercial refrigeration - see Refrigeration X27-F
Common mode rejection ratio improvement in amplifier U24-G03P1
Communication cable X12-D05
Communication connector - see Connector, electrical
Communication transducer - see Acoustoelectric transducer
Communications
aircraft W06-B01B7
anti-eavesdropping W02-L07C
anti-jamming W02-L01C
data system W01-A
eavesdropping W02-L07A
jamming W02-L01A
line system W02-C01
near field system W02-C02
optical system W02-C04
protocol (general data transmission) W01-A07G
protocol for bus communication T01-H07B
protocol for data network W01-A06F
radio system W02-C03
receiver W02-G03
scrambling W02-L05
secret data W01-A05
secret, general W02-L
ship W06-C01B7
sonic W02-C07A
telephone system W01-C
television system W02-F
ultrasonic W02-C07A
vehicle X22-K
Commutator V04-L01A
manufacture V04-P02
manufacture, motors V06-M11A X11-J08A
motors V06-M12 X11-J03
Compact disk player W04-C10A
audio W04-C10A1
interactive (CD-I) W04-C10A
video W04-C10A3
Companders U24-C02B
audio applications W04-G04
general/radio applications W02-G04A
Comparator
frequency U23-C
general circuits U22-A04D5
phase U22-D02 U23-C
pulse generation using U22-A02E
Compasses S02-B06 W06-A09
Compensation
ambient variations S02-K02B
CCD imager characteristics W04-M01B7 W04-M01D6 W04-P01H
dimension, angle, area, etc. Measurement S02-A07
electronic imaging device characteristics W04-P01H
flowmeters S02-C07
general, of sensor/transducer output S02-K02
geophysics devices S03-C10
level indicating S02-C07
noise effects in electrical instruments S01-H01A
nuclear radiation measurement S03-G05
optical instruments S03-A05E S03-A05E
optical test equipment- materials investigation S03-E04P
pressure variations S02-K02B3
scientific instruments S03-H03B
special purpose measurement of force S02-F03X
speed/acceleration measurement S02-G07C
temperature pressure measurement S02-F04E
temperature variations S02-K02B1
thermometers S03-B01H5
transducer characteristics S02-K02A
volume and mass flow measurement S02-C07
weighing appts. S02-D07
Complementary bipolar IC - see Integrated circuit structures, complementary bipolar U13-D01A
Complementary MOSFET IC - see Integrated circuit structure, CMOS U13-D02A
Composing, photoelectronic, printing S06-C01
Composite capacitor (e.g. RC, LC, etc.) V01-B03C8
Composite displays W05-E05C
Composite resistor (e.g. RC, RL etc.) - see Resistor V01-A02G
Compression
audio compression W04-G04
audio data compression W04-V10
gain control U24-C02B
speech compression W04-V05G
time compression, radio W02-G04A1
video signal amplitude compression (general) W04-P01E8
video data compression W04-P01A

video signal amplitude compression (recording) W04-F01A5
volume compression, radio W02-G04B1

Compression of data
computer, (general) T01-D02
digital data (general coding) U21-A05A2
digital data transmission W01-A02A
digital recording (general) T03-P01B
facsimile S06-K07A4D
image T01-J10D

Compressor X25-L03B
industrial, electric X25-L03B
refrigeration X25-L03B X27-F02C1
vehicle, mechanical Q55 Q56
vehicle supercharger Q51-H05A X22-A14
vehicle turbocharger Q51-H05A X22-A14

Compton effect S03-E06C

Computer
analogue T02-A
analogue input T01-C08
analogue output T01-C08
architecture - see Computer architecture T01-M
characterised by type T01-M06
client-server systems T01-M02A1B
clock signal generation and distribution T01-K
coding for, keyboards or printers U21-A05D
Computer aided design - see CAD T01-J15
computer games T01-J30B
computer programming techniques T01-J20A
constructional details T01-L02
cooling and ventilating T01-L02A
cooperative T01-M02B
CPUs T01-J15A1
data input T01-C
data output T01-C
data logging T01-J08F
data/demand driven T01-M03
desk calculator T01-J01
desktop T01-M06A3
distributed T01-M02A
docking stations T01-M06A1B
electrical circuits and hardware T01-J15A
electrical equipment monitoring T01-J08F
electrical equipment testing T01-J08F
EM shielding T01-L02D
emulator T01-F05G
equipment details T01-L
fluid pressure T01-B
hand-held T01-M06A1A
housing T01-L02B
hybrid arrangements T02-B
integrated circuit T01-J15A2
integrated with telephone apparatus W01-C01P2
integration with telephone system (CTI) W01-C05B4A
internetwork architecture T01-M02A1C
keyboard input in-co-operation with display T01-C02A1
keyboard interface T01-C02A
LAN/WAN/intranet architecture T01-M02A1C W01-A06B
lap-top T01-M06A1A
logic circuits T01-J15A1
mainframe T01-M06B
master-slave system T01-M02D
mechanical T01-A
microcomputer T01-M06A
mini-tower T01-M06A3
minicomputer T01-M06A
multiprocessor system T01-M02
multithread T01-F02C3
network-only T01-M02A1A
networks T01-M02A1 W01-A06
non-electrical applications T01-J15X
notepad T01-M06A1A
novel data processing technology (see also Computer data\processing technology) T01-E05
optical T01-M06D
palm-top T01-M06A1A
parallel/array T01-M02C
PC T01-M06A
PCBs T01-J15A2
PCB mounting T01-L02C
peripheral control T01-H05
peripheral interface T01-C
pipeline/vector T01-M02C2
pocket calculator T01-J01
portable T01-M06A1
power supplies T01-L01
process control, industrial T06-A07A
processing task synchronisation T01-F02C1
quantum processing T01-E05Q
quantum processor T01-M06Q
record carriers, magnetic tape T01-C01
RISC T01-M04
server T01-M06S
single chip T01-M05 U13-C05
single processor unit T01-M01
software development T01-J20
sport equipment T01-P02B
supercomputer T01-M06C
superconductive T01-M06E
superscalar T01-M02C3
switching, applications U21-B05X
telephony integration (CTI) W01-C05B4A
toys and novelties T01-J30B W04-X
varying clock rate T01-K01
vibration testing T01-G04
virtual machines T01-M09
virtual systems T01-F05G3

Computer animation T01-J10C5

Computer architecture
array T01-M02C
array, characterised by instruction/data relationship T01-M02C1
Client-server system T01-M02A1B
console T01-M06A5
cooperative T01-M02B
data/demand driven T01-M03
distributed T01-M02A
docking station T01-M06A1B
for document/display generation T01-J11

for image processing T01-J10C2
for internetwork T01-M02A1C
LAN/WAN/intranet T01-M02A1C
laptop computer T01-M06A1
mainframe T01-M06B
master-slave system T01-M02D
microcontroller T01-M05
microprocessor T01-M05
minicomputer T01-M06A
multiprocessor system T01-M02
network-only computer T01-M02A1A
LAN, WAN T01-M02A1
notebook computer T01-M06A1
optical system T01-M06D
parallel T01-M02C
personal computer T01-M06A
pipeline/vector T01-M02C2
portable computer T01-M06A1
quantum processor T01-M06Q
RISC T01-M04
SIMD T01-M02C1
single board computer T01-M01
single chip computer unit T01-M05
single processor unit T01-M01
supercomputer T01-M06C
superconductor system T01-M06E
virtual machines T01-M09
varying clock rate T01-K01
wearable T01-M06A1D
built into clothing X27-A02B1E

Computer data processing systems T01-J
3-D image generation T01-J10C4
Application Programming Interface T01-J20B1
applications, image processing T01-J10G
approximation, function evaluation T01-J04D
artificial intelligence (AI) T01-J16
audio processing T01-J18
CAD for non-electrical application T01-J15X
color processing T01-J10B3B
color system conversion T01-J10B3B
communication controller T01-J08C
composite image formation T01-J10C7
computer control of industrial machinery T01-J07B
computer control of manufacturing machines T01-J07B
computer graphics T01-J10C
computer tomography T01-J10C4B
correlation function T01-J04B2
correlation or transformation T01-J04B
curve generation, image T01-J10C2
data collection/acquisition T01-J07A
desk-top publishing T01-J11B
dictionary, word processing T01-J11A1
digital function generator T01-J17
document delivery systems T01-J11D
DTP T01-J11B
electronic documentation T01-J11C
Equipment support T01-J08A
equipment support using T01-J08A1
equipment support using DSP T01-J08A2
expert systems T01-J16A
font generation, image T01-J10C3
for administration T01-J05A2
for commerce T01-J05A
for computer aided design T01-J15
for electrical equipment T01-J08
for equation solving T01-J04A
for finance T01-J05A1
for function synthesis/analysis T01-J04
for information handling T01-J05B
for medical systems T01-J06A
for statistics evaluation T01-J03
Fourier transform T01-J04B1
fuzzy logic system T01-J16B
genetic algorithm T01-J16C4
geographical information system T01-J06B1
grammar-checking, word processing T01-J11A1
graphic packages T01-J10C5
graphical image generation T01-J10C1
GUI T01-J12
HCI T01-J12
help documentation T01-J11C2
image acquisition T01-J10A
image analysis T01-J10B2
image coding T01-J10D
image data compression T01-J10D
image digitisation T01-J10D
image enhancement T01-J10B1
image generation T01-J10C
image memory management T01-J10A2
image object enlargement T01-J10B3A
image object processing T01-J10B3
image object reduction T01-J10B3A
image object rotation T01-J10B3A
image processing T01-J10
image storage T01-J10E
knowledge processing T01-J16C
language translation T01-J14
learning, AI T01-J16C2
line generation, image T01-J10C2
mark-up languages T01-J11C1
matrix computation T01-J04C
medical information system T01-J06A1
missile guidance T01-J07D3
multiple sensor data acquisition T01-J07A3
neural network T01-J16C1
office automation T01-J11D
portable data acquisition device T01-J07A1
process control T01-J07B1
process control, industrial T01-J07
program management T01-J12
quality control T01-J07B1
security T01-J12C
shape generation, image T01-J10C2
simulation of non-electrical systems T01-J15H
software development T01-J20
speech processing T01-J18
spreadsheets T01-J11G
text generation, image T01-J10C3
user interface management system, windows T01-J12B1
vector computation T01-J04C
vehicle control T01-J07D1
vehicle guidance T01-J07D3
virtual reality image generation T01-J10C4A
Walsh transformations T01-J04B1
WIMPS T01-J12
windows computer interface T01-J12B
word processing (WP) T01-J11A

Computer data processing technology T01-E05
biocomputer T01-E05D
electro-optical T01-E05A
neuronal T01-E05B

optical T01-E05A
superconducting T01-E05D

Computer graphics
3-D image generation T01-J10C4
composite image formation T01-J10C7
computer animation T01-J10C5
curve generation T01-J10C2
graph generation T01-J10C1
image generation T01-J10C
line generation T01-J10C2
shape generation T01-J10C2
text generation T01-J10C3
virtual reality T01-J10C4A

Computer input/output arrangements
T01-C
broadcast TV signal input T01-C03C1
input from keyboard T01-C02
input from magnetic tape T01-C01
manual input devices interface T01-C02
output to magnetic tape T01-C01
radio interface T01-C03C

Computer input/output arrangements for data communication
arrangements for interfacing with networks T01-C03A
broadcast radio signal input T01-C03C1
data communication via modem T01-C03B
data exchange with distant stations T01-C03
radio link T01-C03C
measurement signal input T01-C08B
sampling of analog signals T01-C08
speech recognition T01-C08A
speech synthesis T01-C08A

Computer input/output arrangements for displays
display processing T01-C04D
other display input/output processing T01-C04X
output to CRT (Cathode Ray Tube) T01-C04A
output to display T01-C04
output to display panel T01-C04B
output to LED display T01-C04C

Computer input/output arrangements for interconnections
asynchronous/synchronous operation T01-C07A
buffer interface function T01-C07C2
expansion card T01-C07C5
fibre optic interconnections T01-C07B
interfaces for interconnections T01-C07C
non-wired connection with peripheral T01-C07C3
PC cards T01-C07C5
PCMIA T01-C07C5
remote control of computer T01-C07C3
serial-parallel conversion T01-C07C4
smart card reader interface T01-C07C1
standard interfaces T01-C07C5
sub-systems T01-C07
topology T01-C07D

Computer input/output arrangements for manual input devices
inductive or capacitive pen T01-C02B1H
keyboard input in co-operation with display T01-C02A1
keyboard interface T01-C02A
other keyboard interfaces, e.g opto-electronic T01-C02A9
position digital converters T01-C02B

Computer input/output arrangements for non-manual input
eye input T01-C10
foot input T01-C10
neurological input T01-C10
non-manual human input T01-C10
pedal input T01-C10
PCMCIA input/output details T01-C11

Computer input/output arrangements for printing devices
output to networked printer T01-C05A1
output to plotter T01-C05B
output to printer T01-C05A
output to printing device T01-C05

Computer input/output arrangements for record carrier
DASD T01-C01A
direct access storage device T01-C01A
semiconductor memory interface T01-C01C

Computer input/output arrangements for scanner T01-C06

Computer integrated manufacturing T06-A04B7

Computer memory
DASD T01-C01A
interleaved T01-H03C
network communication T01-N02A2
network control T01-N02B1
network management T01-N02B2
network monitoring T01-N02B2
private networks T01-N02A2A

Computer organ W04-U01

Computer peripheral equipment
accessories T04-L09
casing or cabinet T04-L01
construction of T04-L
CRT display control T04-H01
digitiser, for input T04-M T04-M01 T04-M02
Disc drive T04-P
display control, general T04-H
display unit control T04-H
electroluminescent display control T04-H03C3
field emission display T04-H03C5
fluorescent display control T04-H03C9
hand scanner, for input T04-M02
hand written character input T04-F04
input devices T04-F
joystick T04-F02B3
keyboard T04-F01
LCD display control T04-H03C2
LED display control T04-H03C1
light pen T04-F02A1
manual input T04-F
mounting of PCBs T04-L05
mouse T04-F02B1
non CRT display control T04-H03
plasma display panel control T04-H03C4
plotter S06-K99E
printer S06-K99B
program control for T01-H05A

touchscreen T04-F02A2
trackball T04-F02B5

Computer printer - see Printer, computer S06-K99B

Computer security T01-J12C
lock T01-J12C
password T01-N02B1B

Computer simulation
emulation T01-J15A3
of non-electronic systems T01-J15H
simulation of electrical circuits T01-J15A3

Computer telephony integration (CTI) W01-C05B4A

Computer tomography T01-J10C4B
for medical use T01-J06A
T01-N01E

Computer-controlled system T06-A07A

Computerised tomography
optical S03-E04C3
X-ray S03-E06B3

Computerised tomography (CT), X-ray, medical S05-D02A1

Conception detection S05-D09

Concrete
analysis S03-E14D1
crusher P41-A01
P41-V22
mixer X25-U

Conductive adhesive connection V04-A06

Conductive layer formation U11-C05C
chemical vapour deposition, semiconductor mfr. U11-C05C3
electroplating, semiconductor mfr. U11-C05C6
localised deposition, semiconductor mfr. U11-C05C5
selective deposition, semiconductor mfr. U11-C05C5
sputter deposition, semiconductor mfr. U11-C05C2

Conductive layer on insulating support X12-D02A
electrode, LCD U14-K01A1B
X12-D02A1
transparent X12-D02A1
transparent, LCD U14-H01E
U14-K01A1B
X12-D02A1

Conductive material - see Conductor X12-D01

Conducting nanostructures X12-D02C2D

Conductive wire X12-D02C
audio/video X12-D02C2B
control X12-D02C2C
communication X12-D02C2A
fibres X12-D02C2E
high power X12-D02C1
instrumentation X12-D02C2C
low power X12-D02C2

Conductivity, thermal S03-E01A

Conductor X12-D01
alloy material X12-D01A
anisotropic, film X12-D02A2
bundled X12-D02X
cable X12-D02C
carbon material X12-D01C
dispersion in non-conductive material X12-D01F
dispersion in non-conductive material, inorganic vehicle X12-D01F2
dispersion in non-conductive material, organic vehicle X12-D01F1
fibres X12-D02C2E
film X12-D02A
film, anisotropic X12-D02A2
insulated - see Cable X12-D03
insulating X12-D07B
insulating by extrusion X12-D07B1
insulating by liquid bath X12-D07B1
insulating by spraying X12-D07B1
insulating by winding on tape X12-D07B9
ionic X12-D01E
manufacture X12-D07E
manufacture, bus bars X12-D07E1A
manufacture, fibres X12-D07E2C
manufacture, high power X12-D07E1
manufacture, low power X12-D07E2
manufacture, nano-wire X12-D07E2A
materials, for semiconductor mfr. U11-A08B
materials (inorganic), for semiconductor mfr. U11-A08B2
materials (organic), for semiconductor mfr. U11-A08B1
metal material X12-D01A
nano-material X12-D01D
non-insulated X12-D02C
non-metallic material X12-D01C
oxide material X12-D01B
polymer material X12-D01C1
silicon material X12-D01C
stranded X12-D02X
stranding-up X12-D07C
sulphide material X12-D01B

Cone, acoustoelectric transducer
general transducers V06-V02A
loudspeakers V06-V04A1
manufacture V06-V03A

Cone crusher P41-A01C

Conference equipment W04-W05C

Conference communications systems
data W01-A06E1A
telephone W01-C02B1
television W02-F08A

Confidential document handling
Facsimile/copier/printer S06-K07A3
general sorting T05-K02

Confocal microscopy S03-E04R1

Conformal masks, semiconductor U11-C04D1

Conical-skirt monopole antenna W02-B01C5

Conjuring tricks P36-E15
W04-X03X

Connections
chip to lead frame, semiconductor packages U11-D03A2

Connector, electrical
adverse environment V04-M06

antenna V04-M01
W02-B08D
assembly, terminal connection to housing V04-P05
assembly, wire stripping V04-P03
avionic/military use V04-M30A
W06-B01C1
W07-J01
base V04-D03
battery X16-F05
battery post end piece for cable/wire V04-C01
X16-F05
body V04-D03
brush - see Brush V04-L01B
bus bar allowing connection of counterpart at discrete locations V04-H01
bus bar facilitating connection of counterpart at any point V04-H01
cable TV V04-M01
W02-F
case V04-D03
case, dust cap V04-D03
case, hood V04-D03
case, material V04-D03A
case, moulding V04-D03
case, potting boot V04-D03
case, seal V04-D03
clamp end piece for cable/wire V04-C01
clamps V04-C01
coaxial V04-F
coaxial cable V04-M03
combination connector V04-M12
commutator - see Commutator V04-L01A
computer equipment T01-L03
conductive members interconnected at two or more connecting locations V04-C05
consumer electronics V04-M30L
contact V04-D01
contact blade V04-D01A
contact material V04-D01
X12-D01
contact pin V04-D01A
contact prong V04-D01A
contact securement to base V04-D02
contact, crimped-type V04-D01
contact, dual leaf V04-D01
contact, female V04-D01B
contact, male V04-D01A
contact, receptacle V04-D01B
contact, single beam V04-D01
contact, socket V04-D01B
contact, soldered-type V04-D01
contact, tongue V04-D01B
contact, twin cantilever V04-D01B
contact, wire wrap-type V04-D01
coupling part connecting to counterparts of different voltages V04-H
coupling part connecting to two/more dissimilar counterparts V04-H
coupling part connecting to two/more identical counterparts V04-H
coupling-supported V04-J
cover V04-D03
crimped V04-M10
V04-P01A
crimping appts./method X12-G01E
crocodile clip-terminal end piece for cable/wire V04-C01
data communication V04-M01
W01-A
W01-D02
data processing V04-M30E
details, two-part V04-D
direct - see Direct connection V04-A
distributor V04-L09
distributor block V04-B05
domestic appliance (unspecified) V04-M30N
X27-X
dust cap V04-D03
dusty environment V04-M06
earthing V04-D06B
elastomer block V04-A07
electric train/tram X23-A09
end piece for cable/wire V04-C01
end pieces, multiconductor cable V04-B04
eye-terminal end piece for cable/wire V04-C01
fastening V04-D04
fastening, bayonet V04-D04
fastening, bolt V04-D04
fastening, coupling nut V04-D04
fastening, coupling ring V04-D04
fastening, lever V04-D04
fastening, screw V04-D04
fastening, snap-action V04-D04A
fastening, threaded ferrule V04-D04
ferrule end piece for cable/wire V04-C01
filter V04-M08
filter capacitor V04-D05
flat cable V04-M04
flat cable arrangement, vehicle X22-C05C
V04-M30C
V04-N
fork-terminal end piece V04-C01
grounding V04-D06B
guide V04-D04
hermaphroditic contact V04-D01
high frequency V04-B03
high frequency application V04-M01
high speed V04-M01
holder - see Holder V04-K
hook-terminal end piece V04-C01
hot environment V04-M06
hot-plug V04-M15
housing - see Connector case V04-D03
hybrid signal V04-M09
IDC V04-M07
incorrect coupling prevention V04-D06C
inductive V02-F01P
V02-G01D
industrial machines V04-M30S
instrumentation V04-M30Q
insulation displacing V04-M07
intermediate part distributing energy to two/more paralled circuits V04-J
intermediate part linking two coupling parts V04-J
intermediate part linking two female coupling parts V04-J
intermediate part linking two male coupling parts V04-J
land vehicles V04-M30C
latch (see also Connector fastening) V04-D04
light bulb V04-D05
line, flexible V04-N

line, turnable V04-N
lock (see also Connector fastening) V04-D04
lockable dummy plug V04-D06A
lockable housing for plug not in use V04-D09
machine tools V04-M30R
mains V04-M02
manufacture V04-P
manufacture, case/cover/housing V04-P07
manufacture, contact V04-P06
manufacture, plating V04-P04
manufacture, superconducting wires V04-P10
manufacture, terminating cable V04-P11
medical appliance V04-M30M
metal recovery V04-P09
microconnector V04-M20
mixed signal V04-M09
multi-way adaptor V04-H
multi-way mains adaptor V04-H V04-M02
needle point end piece for cable/wire V04-C01
non-contact type V02-F01P V02-G01D
nut end piece for cable/wire V04-C01
oil/petrochemical industry V04-M30J
panel mounting arrangement of coupling parts V04-D09
personal article use V04-M30P
plug standards converter V04-H
polarisation V04-D06C
printed, for PCBs V04-M05 V04-Q01
probe end piece for cable/wire V04-C01
protective arrangement (see also Connector, safety) V04-D06A
rail allowing connection of counterpart at discrete locations V04-H01
rail facilitating connection of counterpart at any point V04-H01
repair V04-P
RF V04-M01
ribbon cable V04-B02 V04-M04
robotics V04-M30R
safety, contact insulation V04-D06A
safety, cover plate V04-D06A
safety, dummy plate V04-D06A
safety, live part access-prevention V04-D06A
safety, shutter V04-D06A
screening V04-D06B
screw end piece for cable/wire V04-C01
seal V04-D03
shielding V04-D06B
shunt V04-J
sleeve end piece for cable/wire V04-C01
slip-ring - see Slip-ring V04-L01A
smart V04-M11
spade-terminal end piece V04-C01
specific application V04-M
specific industry-type V04-M30
spring clip end piece for cable/wire V04-C01
strain-relief clamp for cable V04-D06D
strain-relief for cable V04-D06D
structural association with electrical component V04-D05
structural association with electrical component, filter capacitor V04-D05 V04-M08
structural association with electrical component, fuse V04-D05
structural association with electrical component, lamp V04-D05
structural association with electrical component, switch V04-D05
switch V04-D05
telecommunications V04-M30G
testing V04-P
three-part coupling V04-J
two-part V04-E V04-F V04-G
two-part and multi-pole, circular V04-G09
two-part and multi-pole, jack V04-G09
two-part, multi-pole, printed circuit V04-G02
two-part and multi-pole, printed circuit edge V04-G02A V04-M05
two-part and multi-pole, printed circuit surface V04-G02B V04-M05
two-part, multi-pole, telephone jack V04-G09 W01-D02
two-part, multi-pole V04-G
two-part, multi-pole D-type V04-G01
two-part, multi-pole rectangular V04-G01
two-part, multi-pole trapezoidal V04-G01
two-part, multi-pole with parallel sliding contacts V04-G01
two-part, printed circuit V04-M05
two-part, single-pole V04-E
two-part, two-pole V04-F
USB V04-G15
vehicles, land V04-M30C X22-X01A
wet environment V04-M06
ZIF connector V04-M16
engagement/diengagement V04-D04

Constant false alarm rate (CFAR) radar W06-A04E5

Construction
alarms W05-B10C
audio/video equipment in general W03-G01
audio/video recording appts. W04-L05
broadcast radio receiver W03-B05
computer housing T01-L02B
computers T01-L02
computer peripheral equipment T04-L
cooling and ventilating for computer T01-L02A
displays W05-E05G
EM shielding in computers T01-L02D
PCB mounting in computer T01-L02C
radio communications receiver W02-G03H
radio communications equipment in general W02-G06
radio transceiver W02-G02H
radio transmitter W02-G01H
telemetry/telecontrol W05-D08N
television receiver W03-A09A

Construction toys and kits P36-E03 W04-X03E9

Consumer electronics connector - see Connector, electrical

Contact
bounce prevention V03-A09 X13-A02

chatter prevention V03-A09 X13-A02
cleaning V03-A09 X13-A02
contact-pressure increasing V03-A09 X13-A02
engagement techniques V03-A02 X13-A02
for test equipment (see also Probe) S01-H03
lubrication V03-A09 X13-A02
manufacture V03-A08 X13-A01C
materials V03-A01A X13-A01A
monitoring V03-A08 X13-A01C
protective enclosures V03-A03 X13-A02
shape/structure V03-A01B X13-A01B
terminals V03-A09 X13-A02
testing V03-A08 X13-A01C

Contact-based liquid application P42-B
brush transfer of fluid P42-B05
immersion or passage through liquid bath P42-B01
pouring or flowing of liquid over surface P42-B03
roller transfer of fluid P42-B05
spin coating P42-B03

Contact bumps, mfr., semiconductor devices U11-C05G2B

Contact holes, semiconductor mfr. U11-C05D3 U11-C05D4

Contactor X13-A04G
air gap type X13-A04G5A
electromagnetic X13-A04G1
gas-insulated X13-A04G5B
vacuum type X13-A04G5C

Container
electrolytic capacitors V01-B01B
electronic component (general) V04-X01A
recording disks T03-H01A
semiconductor devices U11-D01

Contaminant trapping in disk drives T03-F02G1

Contaminated ground treatment for soil reclamation P43-J

Contamination detection
capacitive S03-E02C3
general S03-F09C
magnetic variables S03-E11C1
optical S03-E04F1
with preset threshold S01-G04C5A
with resistance measurement S01-G04C5
without resistance measurement S01-G04C1

Content recommendation, broadcasting
broadcaster / server W02-F10Q3
receiver / subscriber W03-A18A5C

Continuous casting X25-A01

Contour correction for video signal W04-P01E3

Contour measurement S02-A10C
using electrical/magnetic method S02-A02 S02-A10C
using mechanical method S02-A01 S02-A10C
using optical method S02-A03 S02-A10C
using sound or ultrasound S02-A05B S02-A10C

Contrast media S03-E09X
for medical MRI S05-D02B3
for medical ultrasound S05-D03C
for medical x-ray S05-D02A7

Control
aircraft power plant W06-B01A1
airport W06-B02
anti-lock brake system, vehicle X22-C02C3
anti-skid brake system, vehicle X22-C02C3
anti-slip brake, vehicle X22-C02C1
ASR braking, vehicle X22-C02C1
audio tape recorder W04-B12C
braking force, vehicle X22-C02C
centralised, decentralised control T01-H07A2
centralised, data network W01-A06E2A
communication control using computer T01-J08C
copier S06-A14
CRT display, TV receiver W03-A08A
CRT display, VDU T04-H01
data networks W01-A06E
data transfer, network T01-N01D
data transmission (general) W01-A07F
data transmission path access W01-A06F1
decentralised, data network W01-A06E2B
data transmission W01-A07F
decentralised, network W01-A06E2B
diesel-electric locomotive generator X13-H02 X23-A01A2
discharge lamp X26-C01
discharge lamp, intensity X26-C01C
display, non CRT T04-H03
drive-by-wire, vehicle X22-A03B2
electric machine - see Electric machine, regulation/control V06-N X13-H
electroluminescent display T04-H03C3 T04-H03F
electronic throttle, IC engine X22-A03B2
electronic throttle, vehicle X22-A03B2
electrophotographic appts. S06-K07A
electroplating X25-R04B
embroidery machine T06-D03D
facsimile appts. S06-K07A
frequency U23-D
fuel cell X16-C09
fuel pump, IC engine X22-A03A3
fuel purging, IC engine X22-A03A4
fuzzy, vehicle non-engine related T01-J16B X22-Q
gain U24-C
general control systems T06
generators - see Electric machine, regulation/control X13-H02
IC engine air-fuel ratio X22-A03A2A
IC engine exhaust braking X22-A03B5

IC engine exhaust gas recirculation X22-A03A2C
IC engine fuel injection X22-A03A1
IC engine fuel injection quantity X22-A03A1C
IC engine fuel injection timing X22-A03A1A
IC engine fuel supply X22-A03A
IC engine idling speed X22-A03B3
IC engine inlet/outlet valves X22-A03G
IC engine management X22-A03F
IC engine noise X22-A12
IC engine pollution X22-A03J
IC engine power/torque X22-A03D
for traction regulation X22-A03D1
IC engine rpm/speed for cruising X22-A03B1
IC engine rpm/speed for cruising using throttle X22-A03B1A
IC engine rpm/speed using electronic throttle X22-A03B2
IC engine secondary air X22-A03L
IC engine speed X22-A03B
IC engine speed using exhaust braking X22-A03B5
IC engine supercharging X22-A03C
IC engine swirl X22-A03I
IC engine temperature X22-A03H
IC engine turbocharging X22-A03C
IC engine vibration X22-A03X
IC engine T01-J07D1
X22-A03
IC engine, stop-start X22-A03E
incandescent lamp X26-C02
integrated engine/transmission X22-A03F
X22-G01
ISDN control W01-C05B7D
lamp intensity, general X26-C03A5
lamp, general X26-C03
LCD display T04-H03C2
T04-H03F
LED display T04-H03C1
T04-H03F
lighting, general X26-C03
machines, electric - see Electric machines, regulation/control X13-H
V06-N
matrix display, non CRT T04-H03B
motors - see Electric machines, regulation/control X13-H
V06-N
networks (data) W01-A06E
non CRT display T04-H03
nuclear power plant X14-C05B
phase U23-D
plasma display T04-H03C4
T04-H03F
power reactor X12-C02B
power transformer X12-C02B
X13-H04
power transformer, tap changing X12-C02B1
printing press S06-C03A
printing, computer S06-K07A
radio transceiver W02-G02C
signal transmission methods W05-D
single character display T04-H03A
storage or color tubes, CRT T04-H01B
switching point/instant U21-B02A
tape operating mode T03-E05
telephone exchange W01-C02A7
telephone set (general) W01-C01Q
traction braking, vehicle X22-C02C1
traction by engine power/torque regulation X22-A03D1
traction using vehicle transmission regulation X22-G03B
traffic light T07-B05A
T07-C
traffic signal T07-C
transmission procedure (general data transmission) W01-A07G1
vehicle air-fuel ratio X22-A03A2A
vehicle cruising speed X22-A03B1
vehicle cruising speed using throttle X22-A03B1A
vehicle cruising speed using transmission X22-G03A
vehicle differential X22-G05
vehicle engine fuel supply X22-A03A
vehicle exhaust braking X22-A03B5
vehicle exhaust gas recirculation X22-A03A2C
vehicle four-wheel drive system X22-G05
vehicle fuel injection X22-A03A1
vehicle fuel injection quantity X22-A03A1C
vehicle fuel injection timing X22-A03A1A
vehicle IC engine X22-A03
vehicle supercharging X22-A03C
vehicle turbocharging X22-A03C
vehicle window winder X22-H01
video tape recorder W04-B10C
X-ray equipment V05-E02

Control programs (computers)
data handling T01-F05E
job entry T01-F05D
operating system T01-F05G
storage management T01-F05E

Control rod, nuclear reactor X14-C01

Control system
abrading T06-D07A
X25-A03C2
X25-A03F
acceleration T06-B09
acceleration, electric T06-B09B
acceleration, with auxiliary non-electric power T06-B09A
acceleration, without auxiliary power T06-B09A
adaptive T06-A05
AI-based T06-A05A
algorithm based T06-A05C
fuzzy control T06-A05A1
agriculture T06-D01
X25-N01
T01-J07
AI-based T01-J16
T06-A05A
aircraft W06-B01A
analogue comparator T06-A01
antihunting T06-A02
application T06-D
article feeding T06-D08B
X25-F02
artificial intelligence-based T06-A05A
automatic T06-A06
automatic goods retrieval T06-D08C
X25-F01A
automatic open-loop T06-A20
automatic shelving T06-D08C
X25-F01A
automatic, continuous electric T06-A06A1A

automatic, differential characteristics T06-A06A9
automatic, discontinuous electric T06-A06A1D
automatic, disengagement T06-A03
automatic, electric T06-A06A
automatic, engagement T06-A03
automatic, hydraulic T06-A06B
automatic, integral characteristics T06-A06A9
automatic, multi-variable T06-A06A2
automatic, multiple input/output-type T06-A06A2
automatic, PD characteristics T06-A06A9
automatic, PI-characteristics T06-A06A9
automatic, PID-characteristics T06-A06A9
automatic, pneumatic T06-A06B
automatic, proportional characteristics T06-A06A9
automatic, pulse train output-type T06-A06A2
bending, metal T06-D05A1
X25-A02D
blasting machine T06-D07A
X25-A03C2
X25-A03F
boring T06-D07C
X25-A03B
X25-A03F
bottling T06-D15
broaching T06-D07A
X25-A03C1
X25-A03F
burnishing T06-D07A
X25-A03C3
X25-A03F
CAE T06-A07A
CAI T06-A07A
CAM T01-J07B
T06-A07A
carding, yarn T06-D03B
X25-T04A
chemical processing T06-D10
chemical variable T06-B06
CIM T06-A04B7
cloth manufacture T06-D03C
X25-T04B
CNC T06-A04A2
coil handling T06-D08A
X25-F02
combing, yarn T06-D03B
X25-T04A
communication aspects T06-A11
comparing element T06-A01
computer integrated manufacturing T06-A04B7
constructional details T06-A20
contouring, NC T06-A04A3
conveying T06-D08C
X25-F01A
crane T06-D08E
X25-F05
crushing T06-D04
X25-J
culture, agriculture T06-D01B
X25-N01B
cutting, metal T06-D07C
X25-A03
X25-A03F
digital comparator T06-A01
direct/distributed numerical T06-A04A2A
direction T06-B02
direction, with feedback T06-B02B
direction, without feedback T06-B02A
dispensing T06-D15
X25-F03
distributed computers T01-M02A
distributed computers-type T06-A07A1
DNC T06-A04A2A
drilling T06-D07C
X25-A03B
X25-A03F
drying T06-D20
X25-G
earth drilling T06-D12
X25-E01
electric and non-electric variables, simultaneously T06-B20
electric forklift truck X21-A01B
X25-F05A
elevator T06-D08D
X25-F04A
error detector T06-A01
escalator T06-D08D
X25-F04A
excavator T06-D08E
X25-D01
expert system T01-J16A
T06-A05A
FA T06-A04A2A
fabric manufacture T06-D03C
X25-T04B
fertilising, agriculture T06-D01B
X25-N01B
flexible manufacturing T06-A04B7
flow T06-B04
flow, electrical T06-B04B
flow, with auxiliary non-electric power T06-B04X
flow, without auxiliary power T06-B04A
fluid pressure, electric T06-B11
fluid pressure, without auxiliary power T06-B11A
fluidic, non-numerical T06-A04B3
fluids' flow ratio, electrical T06-B08A1
FMS T06-A04B7
food processing T06-D02C
X25-P01
forging T06-D05A
X25-A02C
fork lift truck T06-D08F
X22-P05F
X25-F05A
fuzzy logic T01-J16B
T06-A05A1
general T06-A
goods conveying vehicle T06-D08F
X25-F05A
graph set processing-type T06-A04B1
grinding T06-D07A
X25-A03C2
X25-A03F
hammering T06-D05A1
X25-A02D
harvesting, agriculture T06-D01A
X25-N01A
heuristic rules T06-A05A
hoist T06-D08E
X25-F05
honing T06-D07A
X25-A03C2
X25-A03F

humidity T06-B07
inference engine T06-A05A
internal feedback, electric T06-A02
internal feedback, fluidic T06-A02
irrigating, agriculture T06-D01B
X25-N01B
KBE T06-A05A
knitting machine T06-D03C
X25-T04B2
knowledge base T06-A05A
labelling T06-D15
lapping T06-D07A
X25-A03C2
X25-A03F
lathe T06-D05A
T06-D07C
X25-A03A
X25-A03F
level T06-B05
lift T06-D08D
X25-F04A
light intensity T06-B07
X26-C03A5
livestock feeder T06-D01C
X25-N02A
livestock milking T06-D01C
X25-N02B
load engaging equipment T06-D08E
X25-D01
logic controller T06-A04B1
loom, textile T06-D03C
X25-T04B
machine tool (general) T06-D06
X25-A03
X25-A03F
manipulator T06-D07B
X25-A03E
X25-A03F
manual data input, NC T06-A04A4
manufacturing automation protocol T06-A11
MAP T06-A11
material dimension T06-B03
MDI, NC T06-A04A4
mechanical - see Mechanical Control system T06-C
mechanical force T06-B10
mechanical oscillation T06-B12
mechanical power T06-B12
metal casting T06-D05B
X25-A01
metal working T06-D05A
X25-A02
metallurgy T06-D09
X25-Q
milling T06-D07A
X25-A03C1
X25-A03F
mining T06-D11
X25-D02
mining tool T06-D11
X25-D02B
mining, materials conveying T06-D08C
X25-D02A
X25-F01A
mixing T06-D04
X25-J
models T06-A07B
monitoring T06-A08
monitoring, NC T06-A04A6
multi-machine T06-A04B7
multiplex W05-D02
for vehicle X22-K01
multi-step, automatic T06-A06A1D
NC, using measuring device T06-A04A1
neural net-type T06-A05A
non-electric variable T06-B
non-numerical T06-A04B
non-numerical, programme control T06-A04B1
numerical T06-A04A
numerical, using measuring device T06-A04A1
open loop, numerical T06-A04A9
optimum T06-A05
packing T06-D15
X25-F03A
paper handling T06-D08A
X25-F02A
paper making T06-D03A
X25-T09
paper working T06-D03A
X25-T09
parking T07-F
X22-J05
PD T06-A02
pharmaceuticals T06-D02A
X25-P02
physico-chemical variable T06-B06
PI T06-A02
PID T06-A02
planing T06-D07A
X25-A03C2
X25-A03F
plastics extruding T06-D13
X25-A06
plastics injecting T06-D13
X25-A06
plastics moulding T06-D13
X25-A06
PLC T01-F06
T06-A04B1
plough, agriculture T06-D01A
X25-N01A
polishing T06-D07A
X25-A03C3
X25-A03F
position T06-B02
position, with feedback T06-B02B
position, without feedback T06-B02A
positioning, NC T06-A04A3
power plant, aircraft W06-B01A1
press T06-D20
X25-A02A
pressure T06-B11
programmable logic controller T01-F06
T06-A04B1
programmed T06-A04
punching T06-D05A
X25-A02D
ratio T06-B08
ratio, non-electric auxiliary power-type T06-B08A9
ratio, non-electric without auxiliary power T06-B08A9
recording and playback, non-numerical T06-A04B5
relay ladder-type T06-A04B1

robot T06-D07B
X25-A03E
robotic vehicle T06-D08F
X25-F05A
rolling T06-D05A1
X25-A02B
rule base T06-A05A
safety arrangement T06-A03
safety, NC T06-A04A6
sampled-variable T06-A10
sawing T06-D06
X25-A03
X25-A03F
separating T06-D04
X25-J
sequence controller-type T06-A04B1
several fluids flow ratio T06-B08A
sewing machine T06-D03D
X25-T04C
ship W06-C01A
simulator T06-A07B
simultaneous, multivariable-type T06-B14
soil shifter T06-D08E
X25-D01
soil working, agriculture T06-D01A
X25-N01A
sorting T05-K
T06-D15
X25-F06
sowing, agriculture T06-D01A
X25-N01A
speed T06-B09
speed, electric T06-B09B
speed, with auxiliary non-electric power
T06-B09A
speed, without auxiliary power T06-B09A
spinning, yarn T06-D03B
X25-T04A
sprinkler, agriculture T06-D01B
X25-N01B
stress T06-B10
strip handling T06-D08A
X25-F02
target seeking (general) T06-B01B
target seeking, missile T06-B01B
W07-A01C
teaching, non-numerical T06-A04B5
temperature T06-B13
temperature, using electric sensor T06-B13B1
temperature, using magnetic sensor
T06-B13B1
temperature, using radiation sensor T06-B13B9
temperature, with auxiliary heater T06-B13B2
temperature, with electric means T06-B13B
temperature, without auxiliary power T06-B13A
tension regulating T06-D08B
testing T06-A08
textile fabric manufacture T06-D03C
X25-T04B
tobacco processing T06-D02B
X25-P03
tool path interpolation, NC T06-A04A5
torque T06-B12
total factory, numerical T06-A04A2A
tractor, agriculture T06-D01A
X22-P09
X25-N01A
turning T06-D07C
X25-A03A
X25-A03F
twisting, yarn T06-D03B
X25-T04A
two-step, automatic T06-A06A1D
using algorithms T06-A05C
vehicle course/position in 3-dimensions - see also Aircraft, ship and Vehicle for particualar cases T06-B01X
vehicle course/position in two-dimensions - see also Aircraft, Ship and Vehicle for particular cases T06-B01A
vibration T06-B12
vibration reduction
for aircraft Q25-N
for ship Q24-N
for vehicle Q17-N
X22-A12
X22-X08
viscosity T06-B07
warping T06-D03C
X25-T02
web-advancing T06-D08A
X25-F02
wefting T06-D03C
X25-T02
winch T06-D08E
X25-F05
winding, yarn T06-D03B
X25-T04A
wire drawing T06-D05A
X25-A02E
wood working T06-D06
X25-A03
X25-A03F
working plastics T06-D13
X25-A06
working rubber T06-D14
X25-A07
yarn mfr T06-D03B
X25-T04A

Controlled collapse bonding U11-E01C
Convergence, television CRT display W03-A08A5
coil V02-D
V05-D01B3
V05-D06B1
W03-A08A5C
control circuitry W03-A08A5A
Conversion
format T01-J14
T01-N03B4

Converter
AC to surge U24-D09
X12-J09
AC-AC U24-D03
X12-J03
AC-DC U24-D04
X12-J04
AC-DC bridge U24-D04C1
X12-J04C1
AC-DC bridge, characterised by diodes
U24-D04C1A
X12-J04C1A
AC-DC bridge, characterised by thyristors X12-J04C1B

AC-DC, full-wave U24-D04C
X12-J04C
AC-DC, half-wave U24-D04A
X12-J04A
AC-DC, multiplier U24-D04E
AC-DC, synchronous U24-D04G
X12-J04E
bidirectional converter U24-D10
X12-J10
charge pump U24-D02A1
chopper U24-D02A2
constuctional details U24-D01K
X12-D01K
cooling U24-D01G
V04-T03
X12-J01G
current source inverter U24-D05B2
X12-J05B2
DC to surge U24-D09
X12-J09
DC-AC U24-D05
X12-J05
DC-AC, characterised by bipolar transistors U24-D05A1
X12-J05A1
DC-AC, characterised by FET U24-D05A3
X12-J05A3
DC-AC, characterised by IGBT U24-D05A1A
X12-J05A1A
DC-AC, characterised by thyristor X12-J05A5
DC-AC, full-bridge U24-D05A
X12-J05A
DC-AC, half-bridge U24-D05A
X12-J05A
DC-DC U24-D02
X12-J02
DC-DC with intermediate AC U24-D02B
X12-J02B
DC-DC without intermediate AC U24-D02A
X12-J02A
DC-DC, flyback U24-D02B1
DC-DC, forward U24-D02B1
DC-DC, full-bridge U24-D02B5
DC-DC, half-bridge U24-D02B3
DC-DC, push-pull U24-D02B3
DC-DC, resonant U24-D02B7
DC-DC, SEPP U24-D02B3
DC-DC, single-ended push-pull U24-D02B3
details, other U24-D01X
X12-J01X
digital protector U24-F05
dynamo-electric X11-H09
dynamo-electric, braking X13-H01B
dynamo-electric, starting X13-H01A
electromagnetic interference (EMI) reduction U24-D01E5
W02-H01
X12-J01E5
excess current/voltage limiting U24-D01B
U24-F02
X12-J01B
X13-C03
X13-C04D
filtering output U24-D01E
U25-E
X12-J01E
frequency U24-D03
X12-J03
frequency, matrix X12-J03A
general details U24-D01
X12-J01
harmonics reduction U24-D01E1
U25-E
X12-J01E
interference (EM/RF) reduction U24-D01E5
W02-H01
X12-J01E5
measuring/testing U24-D01J
multi-phase control U24-D01A8
multiple input/outputs U24-D11
position, interface T01-C02B
power, electric train/tram X23-A01A3
protection U24-D01B
U24-F
X12-J01B
X13-C04D
pulse U24-D06
X12-J06
PWM control U24-D01A9
X12-J01A9
radio frequency interference (RFI) reduction U24-D01E5
W02-H01
X12-J01E5
ripples reduction U24-D01E2
U25-E
X12-J01E
smart protector U24-F03
smoothing output U24-D01E
U25-E
X12-J01E
snubber circuits U24-D01B1
snubber circuits, active U24-D01B1C
snubber circuits, dissipative U24-D01B1F
snubber circuits, non-dissipative U24-D01B1H
snubber circuits, passive U24-D01B1A
solid-state (analogue) protector U24-F04
synchronous rectifier U24-D04G
utility inter-tie inverter U24-D05B3
X12-J05B3
voltage source inverter U24-D05B1
X12-J05B1

Conveyor X25-F01
conveying trucks X25-F05A
control T06-D08C
X25-F01A
conveying X25-FO5A
counting objects on T05-A01
for semiconductor wafers U11-F02A
mining X25-D02A

Convolution, analogue T02-A04B2A

Convolutional code data transmission, error detection/correction W01-A01B2
algorithm aspects T01-S
W01-A01B2S
combined convolutional coding scheme W01-A01B4
coding T01-D02
W01-A01B2S
Turbo coding W01-A01B2E
Viterbi coding W01-A01B2A

Convolutional error detection/correction U21-A06C
turbo coding U21-A06C2

using Trellis coding U21-A06C3
Viterbi coding U21-A06C1
Cooker X27-C
combination X27-C07
electric X27-C02
gas X27-C05
in vending machine T05-H04A
induction X27-C06
pressure, electric X27-C04
rice, electric X27-C04
Cooker hood X27-B05
Cooling
battery X16-K01
computer equipment T01-L02A
discharge tube V05-M07
electric machine V06-M13
X11-J06
electronic appts V04-T03
fuel cell X16-K01
instruments S01-J02C
IR detector S03-A04
lasers V08-A05
light fixture X26-D02
magnetic X27-F02A1
optical instruments S03-A04
radio transmitters W02-G01H
semiconductor packages U11-D02
semiconductor packages, cryrogenic arrangements U11-D02C
semiconductor packages, external heatsinks (detachable) U11-D02B2
semiconductor packages, heat transfer by fluid means U11-D02D1
semiconductor packages, high power thyristor, transistor, rectifier U11-D02A
semiconductor packages, high power, stacks, installation U11-D02A1
semiconductor packages, materials for heat transfer U11-D02B
semiconductor packages, modules, surface mounted chip assemblies U11-D02D
semiconductor packages, on chip/within package heat sinks U11-D02B1
semiconductor packages, using Peltier element U11-D02D2
semiconductor packages, ventilating U11-D02
steam turbines X11-A01C
switches V03-B06
switchgear X13-E09
Cooling, discharge tube
forced circulation V05-M07B
heat sink V05-M07A
Cooling, superconducting device/equipment X12-C02A3
cryostat X12-C02A3A
Cooling therapy S05-A05B
Coordinate measurement S02-A10G1
calibration S02-A07
compensation S02-A07
using electrical/magnetic method S02-A02
S02-A10G1
using mechanical method S02-A01
S02-A10G1
using optical method S02-A03
S02-A10G1
monitoring/testing S02-A07
S02-A10G1
Coordinates, transforming (radar systems) W06-A04E3E
Copier - see Electrophotography
Copy prevention
audio recording signal W04-G01L1
electrophotography S06-K07A3
video projectors W04-Q01J5
video recording signal W04-F01L1
Copyright protection T01-J05A2G
T01-N01A2G
Cord switch V03-C03
Cordless headphone W03-G05C5A
Cordless loudspeaker W03-G05C5C
Cordless microphone W04-S05C1
Cordless telephone
base unit (subscriber location) W01-C01D1B
call point (e.g. CT2) base station W01-B05A1B
W02-C03C3B
callpoint type subscriber set W01-C01D1E
ID security W01-C01D1D
portable unit (subscriber location) W01-C01D1A
SIM W01-C01D1D
Core
general V02-C
hf inductor V02-F03A2
hf reactor V02-F03A2
hf transformer V02-F03A2
magnetic recording head (general) T03-A03J1
V02-F03A2
V02-F05
power reactor X12-C01A
power supply reactor V02-G02A2
power supply transformer V02-G02A2
power transformer X12-C01A
Core manufacture
electromagnet V02-H03C
electromagnetic relay V02-H03C1
V03-D06B
electromagnetic valve V02-H03C2
X25-L01A
inductor, general V02-H03E
inductor, hf V02-H03E
inductor, power supply V02-H03E
magnetic recording head (general) T03-A04A1
V02-H05
motor, large X11-J08A
motor, small V06-M11D
other low power devices V02-H03X
printer electromagnet S06-F
V02-H03C3
reactor, power X12-C01D1
transformer, hf V02-H03A
transformer, power X12-C01D1
transformer, power supply V02-H03A
Core stores (magnetic) - see Digital static stores, magnetic core type U14-A04X
Coriolis flowmeters S02-C01F
Corona charger, in electrophotography S06-E02

Cornet (instrument) P86-A01A3
Corona charger for transfer S06-E05
for toner transfer, electrophotography S06-E05A
for paper separation, electrophotography S06-E05B
Corona discharge X12-F04
photocopier S06-A02A
rings X12-F04
Corona motor V06-M06J
Correction for measurements - see Compensation S02-K02
Correlation
computer data processing systems T01-J04B2
radar signal processing W06-A04E9
speech signal processing W04-V05C
statistical analysis by computer T01-J03
using DSP U22-G03E3D
Corrosion resistance measurement S03-F07
Cosmetics testing S03-E14A3
Coulometric titration S03-E03A
Counters
asynchronous U21-D04
bipolar transistors U21-D06A2
decade U21-D05B2A
divide-by-N U21-D05B2
electromechanical U21-D06B
error correction U21-D02B
FET U21-D06A1
for pulse generation U22-A02D
input/output circuits U21-D01
mechanisms for counting items T05-B
monitoring U21-D02B
non-integer base U21-D05B3
odd number base U21-D05B2B
opto-electronic U21-D06A3
random U21-D05C6
reversible U21-D05A
ring type U21-D03A
semiconductor U21-D06A
starting/stopping U21-D02A
synchronous U21-D03
thyristors U21-D06X
using biquinary code U21-D05C3
using excess three code U21-D05C2
using Gray code U21-D05C1
with non-binary base U21-D05B
with variable counting base U21-D05B1
Counting
coin and note T05-L07
objects on conveyor T05-A01
randomly distributed objects T05-A02
stacked objects T05-A02
vehicles for traffic monitoring T07-A01C
Counting tube (radiation) S03-G02B2A
Coupler Q63-A
inductive V02-G01D
optical - see Optical couplers V07-G
optical fibre - see Optical couplers V07-G
waveguide W02-A02
Coupling (electronic) - see Connector, electrical
Coupling device (electronic) - see Connector, electrical
Coupling mechanical vibrations P43-A05
Cover layer, photoconductor S06-A01B
CPU, computer aided design for T01-J15A1
Cradle switch, telephone W01-C01A
Crane Q19-E
X25-F05
control T06-D08E
X25-F05
Crash testing
crash dummy, vehicle S02-J02F1
CRC U21-A06A1
Creep measurements - see mechanical stength measurements
Cricket (sport) P36-A01
W04-X01K1G
Crimped connector V04-A02
V04-M10
X12-G02
Crop spraying boom P13-A
P42-A03C
P42-T01A
P42-U05
Cropping, image processing W04-N05C3G
Cross-color suppression in color TV receiver W03-A05B5
Cross-connect switch, data network W01-A06G5A
Cross-country running P36-A03
W04-X01K3A
Cross-country skiing ('langlauf') P36-A03
W04-X01K3P
Cross-cut shredder P41-A04
T04-X
X25-J
X27-A02C
Cross-section
control for CRT electron beam V05-D06A5
Crossmodulation
measurement S01-D08A
reduction in radio receiver W02-G03B4E
Crossover network (loudspeaker) V06-V02S
W04-T05
Crosstalk reduction, line transmission W02-C01C2
Crosstie random access memory U14-A04A
CRT V05-D
antireflective filter V05-D07C3
antistatic tube coatings V05-D07B3S
aperture grill V05-D01B1D
associated circuitry V05-D08
associated devices V05-D08
associated optics V05-D07C5
beam controlling/generating arrangements V05-D06
camera tube V05-D02
complete novel tube V05-D01A
components associated with electron gun V05-D06A7
conductive coatings V05-D07B3
convergence coil V02-D
V05-D06B1
cooling V05-D07C1

deflection yoke assembly V02-F01A
V05-D06B1A
deflection yoke assembly fixing system
V05-D06B1A
V05-D08
degaussing circuitry V05-D08A1
degaussing system V05-D08A
delta gun tube V05-D01B3B
display control aspects T04-H01
display tube per se V05-D01B
electromagnetic deflection components
V05-D06B1
electron beam aberration correction V05-D06A5
electron beam cross-section control V05-D06A5
electron beam focusing components
V05-D06A5
electron gun V05-D06A
electron gun characterised by type V05-D06A1
electron gun with structurally-associated components V05-D06A7
electron-multiplier arrangements V05-D06E
electrostatic deflection V05-D06B5
EM radiation prevention screen filter
V05-D07B5
EM shielding tube coatings V05-D07B3E
external shield enclosure V05-D08E
flat V05-D01B5
flood gun tube V05-D01B1E
in-line gun tube V05-D01B3A
laser diode screen V05-D05A3
lead-in V05-D07B1
luminescent screen V05-D05B
magnetic tube coatings V05-D07B3M
manufacture - see CRT manufacture
V05-L05D
matrix configuration multiple gun tube
V05-D01B3C
matrix-drive-with-deflection type (MDWD)
V05-D01B3C
monochrome tube, single gun V05-D01B1A
multiple electron gun tubes V05-D01B3
multiple gun with separate tube necks
V05-D01B3D
optical coating on tube surface V05-D07C3
optical elements associated with tube V05-D07C5
phosphor compositions V05-D05B1
post-deflection arrangement V05-D06C
potential divider integral with electron gun
V05-D06A7
radiation preventing coil V05-D08B
resistor integral with electron gun V05-D06A7
rose V05-D08C5
seals V05-D07A7
semiconductor diode array screen V05-D05A3
separate screening device V05-D07B5
shadow mask V05-D05D
shield, external V05-D08E
shield, internal V05-D05E
shield, magnetic, internal V05-D05E1
single electron gun tubes V05-D01B1
single gun multibeam tube V05-D01B1D
socket, connector V05-D08C
tension band V05-D07A1
testing S01-G02A
V05-L05D
V05-L07E
vessel details V05-D07A5

CRT beam deflection coil
TV receiver V02-F01A
V05-D01B
V05-D06B1A
W03-A08A1B
VDU T04-H01
V02-F01A
V05-D01B
V05-D06B1A

CRT deflection circuits
TV receiver W03-A08A1
VDU T04-H01

CRT degaussing
coil (general) V05-D01B3
V05-D08A5
coil in TV receiver W03-A08A4A
control circuitry (general) V05-D01B3
V05-D08A1
control circuitry in TV receiver W03-A08A4C

CRT display
antireflective filter V05-D01B
V05-D07C3
associated optics V05-D01B
V05-D07C5
color tube control, computer peripheral
T04-H01B1
control, computer peripheral type T04-H01
focussing arrangement, TV receiver W03-A08A3
head-up W04-Q01A
W04-Q01K
single beam tube control, computer peripheral T04-H01A
storage tube control, computer peripheral T04-H01B
tube per se - see Cathode ray tube V05-D01
TV receiver circuits W03-A08

CRT manufacture V05-L05D
ageing V05-L07E3
assembly V05-L03C
cathode mfr. V05-L01A
electrode system insertion V05-L03C1
electron gun mfr. V05-L01B4
exhausting V05-L03C5C
getter flashing V05-L03C7A
getter mfr. V05-L06
inserting gun V05-L03C1A
screen V05-L02
screen coating processes V05-L02C
screen exposure and development V05-L02E
screen exposure appts. V05-L02E5
screen protection layer application V05-L02F
screen testing V05-L02H
shadow mask V05-L01B5
tension band fitting V05-L03C7C
tension band mfr. V05-L03D
tube ageing V05-L07E3
tube assembly V05-L03C
tube rectification V05-L07E5
tube salvage V05-L07E6
tube shipping/packing V05-L07E7
tube testing V05-L07E1
vessel coating and marking V05-L03B
vessel part joining V05-L03C5
vessel per se V05-L03A
vessel sealing V05-L03C5A

CRT screen
- manufacture V05-L02, V05-L05D1B
- non-phosphor aspects V05-D05B7
- phosphor composition V05-D05B1
- single phosphor screen V05-D05B3

Crushing X25-J
- control T06-D04, X25-J

Crutches (medical) P33-A99

Cryogenic cooling, semiconductor devices U11-D02C

Cryogenics X25-V

Cryostat X12-C02A3A
- superconducting coil X12-C05
- superconducting magnet X12-C05A

Cryosurgery S05-B06

Cryptography
- data transmission W01-A05A
- general P85-C
- quantum (data) W01-A05E

Crystal filter U25-B, V06-V01B, V06-V04D1

Crystal growth apparatus for semiconductor manufacture
- crucibles, crystal holders U11-B05A
- crystal pulling mechanisms U11-B03B
- heating arrangements for growth U11-B05A

Crystal growth, semiconductor U11-B
- AII-BVI compounds U11-B03B
- AIII-BV compounds U11-B03A
- AIV elements, compounds U11-B03C
- apparatus- see Crystal growth apparatus for semiconductor manufacture U11-B05
- Bridgman method U11-B02B
- casting U11-B04
- Czochralski method U11-B01
- edge-defined film fed growth U11-B04
- gradient freeze method U11-B02X
- materials U11-B03
- pulling from melt (boules) U11-B01
- ribbon techniques U11-B04
- spherical, e.g. drop method U11-B03A
- zone refining U11-B02A
- sinusoidal output U23-A01A

Crystal oscillator
- analogue circuit U23-A01A
- astable pulse generator U22-A04A2

Crystal resonator thermometer S03-B01C

Crystallographic orientation, semiconductor U11-B03

Crystallography S03-E06C

CSMA data network access W01-A06F1A

CT (current transformer) V02-G01B, X12-C01G
- measurement S01-D01D1A, V02-G01B, X12-C01G
- protection V02-G01B, X12-C01G, X13-C01X

Cubic boron nitride- see AIII-BV compounds

Cuckoo clock S04-B08

Curling tongs X27-A02A1

Cupboard P25-C

Current
- mirror, amplifier U24-G02A3
- mirror, supply U24-E01C5
- transformer S01-D01D1A, V02-G01B, X12-C01G

Current collector
- brush V04-L01B
- brush, motor V06-M12, X11-J03
- commutator V04-L01A
- commutator, motor V06-M12, X11-J03
- electric vehicle X21-B03
- manufacture, brush V04-P02
- manufacture, brush, motor V06-M11A, X11-J08A
- manufacture, commutator V04-P02
- manufacture, commutator, motor V06-M11A, X11-J08A
- manufacture, slip-ring V04-P02
- manufacture, slip-ring, motor V06-M11A, X11-J08A
- non-rotary V04-N
- rotary V04-L
- slip-ring V04-L01A
- slip-ring, motor V06-M12, X11-J03
- sliding, high power X12-G02E
- train, electric X12-G02E, X23-A04

Current flow controlling, semiconductors

Current measurement S01-D01
- by AC/DC conversion S01-D01C5
- by beam deflection S01-D01D7
- by DC/AC conversion S01-D01C1A
- capacitive voltage transformer S01-D01D3
- CVT S01-D01D3
- digitally S01-D01C1B
- effective values S01-D01A1
- functions of currents S01-D01A
- indicating AC waveform zero-crossing point S01-D01B5
- indicating presence S01-D01B1
- indirect, inductive/magnetic S01-D01D1
- indirect, non-contact S01-D01D
- other indirect current/voltage measurements S01-D01D9
- peak S01-D01A3
- RMS S01-D01A1
- thresholding S01-D01B5
- using chopper circuit S01-D01C1A
- using current transformer S01-D01D1A
- using electrochromic effect S01-D01D5
- using electron beam probing circuit S01-D01D7
- using electrostatic fields S01-D01D3
- using Faraday cup S01-D01D3
- using Faraday rotation S01-D01D5
- using optical transformation S01-D01D5
- using particle beam S01-D01D7

using Pockel's effect S01-D01D5
Current mirror circuit U24-G02A3
supply U24-E01C5
Curtain
electrical details X27-T
for vehicle Q14-D
manufacture P27-M
non-electrical details P27-C
Curve follower for input to computer T04-E
Cushion P26-C
manufacture P26-M
Custom analogue arrays U13-B09
Cutlery P27-B03
Cutter, gramophone W04-A01
Cutting P62-B
electron/ion beam (using) V05-F08E3
optical fibres V07-G01
V07-H01
paper in copier S06-K05A
semiconductor wafers U11-C06A2
Cutting ability S03-F02B
Cutting machine/tools X25-A03
axe, hatchet P62-B10
clippers, shavers P62-B08
constructional details P62-T
control T06-D07
X25-A03
X25-A03F
knife P62-B05
punch P62-B01
razor P62-B09
scissors, shears P62-B07
Cuvettes, optical (see also Materials investigation) S03-E04X
CVT S01-D01D3
X12-B
Cyclic redundancy code U21-A06A1
Cycling (sport/leisure) P36-A03
W04-X01K3C
Cycloconverter X12-J03
control X12-J01A
X12-J03
X13-H03X
Cyclotron X14-G02
Cytometry- see flow cytometry
Czochralski crystal growth, liquid encapsulated U11-B01

D

3D spectacles, stereoscopic display
anaglyph type W03-A08E7E
W03-A12A
electro-optical shutter type W03-A08E7C
W03-A12A
LC shutter type W03-A08E7C
W03-A12A
D-A conversion - see Digital-analogue conversion U21-A02
DAB (digital audio broadcasting) W02-D05C1
W02-K07C
Daisy wheel computer printer S06-F01
Dairy products P13-D
cleaning, maintenance/repair of equipment P13-G
milking and primary treatment P13-D01
secondary milk treatment P13-D02
type of dairy product P13-D50
Damping sound (general) P86-E05E
novel materials P86-E05E
P86-T50
Dark current compensation for solid-state imager W04-M01B7
W04-M01D6A
W04-P01H1
Darts (sports/leisure) P36-A05
W04-X01K5C
DAT - see Digital audio tape recorder W04-B12G
Data card or carrier T04-C
Data communication equipment (general)
construction W01-A07J
fault detection W01-A07L
interface W01-A07H
optical W01-A07E
power supply W01-A07K
protocol W01-A07G
receiver W01-A07D
transmitter W01-A07C
Data comparing T01-E01C
Data compression - see Compression of data
Data concealment W01-A05L5
Data conversion T01-D
Data decoding, facsimile S06-K07A4D
Data encryption
digital communication W01-A05A
digital computers T01-D01
encrytion algorithm T01-D01A
facsimile transmission S06-K07C8
interactive broadcasting W02-F10N1
TV signal W02-F05A1
quantum cryptography W01-A05E
Data interception W01-A05L1
Data interception prevention W01-A05L5
remote control/measurement system W05-D05B5A
Data processing
adding, subtracting T01-E02A

ALU T01-E02D
biocomputer T01-E05D
logic processing T01-E02C
multiplying, dividing T01-E02B
neuronal T01-J16C1
neuronal configurations T01-E05B
optical/electro-optical T01-E05A
superconducting elements T01-E05C

Data processing connector - see Connector

Data processing, digital T01-E
denominational number representation T01-E02
digital value comparison T01-E04
nondenominational number representation T01-E03
systems T01-J

Data processor
facsimile S06-K07A4A

Data recording, editing T03-K01

Data refreshing for memories U14-A03B4A

Data shifting, digital computers T01-D03

Data sorting, digital computers T01-E01A T01-E01B
image storage T01-J10E

Data streaming over PSTN
GPRS W01-B05A1A W01-C05B3J W02-C03C1A
telephone network aspects W01-C05B3J
telephone set aspects W01-C01G6G

Data terminal W01-A07H
fault detection W01-A07L
general construction details W01-A07J
power supply W01-A07K

Data transfer network, point-of-sale T05-L01D

Data transfer T01-N01D
audio T01-N01D1A
between applications T01-F02C4
document T01-N01D2
medical applications S05-G02G3 T01-N01E
mulitmedia T01-N01D1
remote site T01-NO1D3
video T01-N01D1B

Data transfer, computing T01-N T01-H07
applications T01-N01D
audio T01-N01D1A
bus protocol T01-H07B
bus structure T01-H07A
bus structure (type) T01-H07A1
communication control T01-N02
connections between multiprocessors T01-H07C7C
data exchange with distant stations T01-C03
electronic mail T01-N01C
image file transfer T01-N01D1B
inter-processor data transfer T01-H07C7
internet T01-N02A2B
multiprocessor data transfer T01-H07C7
Network communication T01-N02
other types of data transfer T01-H07A9
routing T01-N02A3B
server T01-N02A3C
sound T01-N01D1A
video file transfer T01-N01D1B

Data transmission W01-A
AM carrier systems W01-A09A1
baseband W01-A08
BluetoothTM Interface W01-A07H2A
BluetoothTM network W01-A06C4A
carrier-based W01-A09
control, communication W01-A07F
control, transmission procedure W01-A07G1
DC offset adjustment W01-A08E
DC systems W01-A08
differential (DC/baseband) W01-A08D
dot-and-dash code W01-A07A
dot-and-dash code W01-A07A
equal-length code W01-A07B
facsimile S06-K07C
FM carrier systems W01-A09A2
free space optical data interface W01-A07H3
IEEE 802.11 network link W01-A06C4E
IEEE 802.15 radio link W01-A06C4A
IEEE 802.16 network link W01-A06C4G
interface, characterised by W01-A07H
LVDS W01-A08D
multiple use of transmission path W01-A03
optical communications W01-A07E
optical fibre interface W01-A07H4
packet W01-A03B
packet switching W01-A06G2
power line data network W01-A06C6
processing W01-A07F
protocol, general W01-A07G
protocol, network W01-A06F
radio data interface W01-A07H2
repeaters W01-A06G5G
stored and forward switching W01-A06G2
UWB and impulse radio interface link W01-A07H2K
UWB and impulse radio network link W01-A06C4K
wired data interface W01-A07H1

Data transmission, multiple use of transmission path
access control protocol W01-A06F1
asynchronous transfer mode (ATM) W01-A03B1
CSMA/CD and CA W01-A06F1A
full duplex W01-A03D5
half duplex W01-A03D1
packet transmission W01-A03B
TDM W01-A03C
TDMA W01-A03C1
TDMA network access W01-A06F1G
token pass W01-A06F1E

Data/demand driven computer T01-M03
Database Applications T01-J05B4P
Database Management T01-J05B4M
Deductive database T01-J05B4D
Distributed database T01-J05B4A
health care records S05-G02G2
Image and video databases T01-J05B4F
medical, hospital S05-G02G
Object-Oriented database T01-J05B4C
patient's medical records S05-G02G1
Relational database T01-J05B4B

Databases T01-J05B T01-J05B4
data and directory structure T01-J05B2B
image archiving T01-J05B2A
image filing T01-J05B2A

searching T01-J05B3
storage T01-J05B2
Date indicator, clock or watch S04-A02B
DBS
broadcast radio receiver W03-B06A
radio broadcast systems W02-D05A
TV broadcast systems W02-F06A
TV receiver ancillary equipment W03-A16A
TV receiver tuner W03-A01A1
DC amplifier U24-G02D
offset reduction U24-G02D
U24-G03F
DC bridges (see also S01-D05 codes) S01-F01
transducer S01-F01A
DC brushless machine (see DC machine)
DC circuit breaker X13-B09
DC machine (see also Electric machine)
brushless (general) V06-M03
X11-H01
brushless, permanent magnet V06-M03A
X11-H01A
brushless, sensorless V06-M03C
X11-H01C
brushless, switched reluctance V06-M03B
X11-H01B
interrupter type V06-M06
X11-H09
mechanical commutator V06-M02A
X11-F
DC network U24-H
X12-H01D
DC offset adjustment or prevention
amplifiers U24-G03F
data transmission W01-A08E
direct-conversion radio receivers W02-G03B4G
DC systems, data transmission W01-A08
characterised by code W01-A08A1A
differential W01-A08D
non-synchronous systems W01-A08C
offset prevention W01-A08E
receiving circuits W01-A08A1
repeaters W01-A06G5G
W01-A08
start-stop W01-A08A
synchronous W01-A08A
transmitting circuits W01-A08A1
with storage W01-A08A1B
DC-AC converter - see Converter
DC-DC converter - see Converter
DCF-77 receiver S04-B06
De-husking grain P41-A07A
De-icing equipment for aircraft W06-B01C4
De-soldering iron X24-A02A
P55-T01
Deaf aid -see Hearing aid W04-Y
Decimation
filter (digital) U22-G01B6
general downsampling U22-G03B1C
Decision support systems T01-J05A2
Decoder
ARI W03-B02C5
W03-B08
facsimile data S06-K07A4D
remote position transmission systems W05-D09
stereophonic radio broadcast receivers W03-B02C3
stereophonic TV receiver W03-A03C1
W03-A12B1
subscription TV W03-A16C3
Decoding (general) U21-A
Decorative art P78
branding P78-A04
carving P78-A03
embossing P78-A06
guilloching P78-A02
inlaying P78-A05
materials P78-P
painting or drawing P78-A07
paper hanging P78-C01
sculturing or modelling P78-A01
special designs P78-S
Dedicated record carrier
mechanism actuated by T05-H02C1
Deep Level Transient Spectroscopy (see also U11-F01A codes) S03-E02C5
Defect detection and inspection (see also Flaw detection)
optical disk, during manufacture T03-B01E7B
semiconductor film U11-F01B
semiconductor film, using pattern recognition U11-F01B3
semiconductor material U11-F01A2
semiconductor package U11-F01E
using pattern recognition T04-D07A
Defibrillator, heart
charge storage S05-A01C
defibrillator S05-A01B
electrode S05-A02A
power supplies S05-A01C
Deflection circuits, TV CRT W03-A08A1
combined with power supply W03-A08A1C
Deflection coil for CRT V02-F01A
V05-D01B
V05-D06B1A
manufacture V05-D06B1A
Deflection, light V07-K05
Deformation measuring - see Measuring
Defruiter for secondary radar W06-A04B3
W06-A04E5
Degaussing
general V02-D
ships W06-C09
TV CRT W03-A08A4
Dehusking grain P41-A07A
Delay devices
for transit-time tubes V05-C02C3
Delay equalisation network
lumped constant U25-E05Q
distributed constant W02-A03B

Delay line
electromechanical V06-V04D2
waveguide W02-A03B
lumped constant U25-A05
Delay lock loop U23-D01D
acquisition time reduction U23-D01F1
active loop control U23-D01F4
broadening capture range U23-D01F7
charge pump U23-D01A3C
Costas loop U23-D01C1
data synchronisation using W01-A04B1
delay array U23-D01A6
demodulation using U23-D01C
details U23-D01A
digital U23-D01A8B
false lock prevention U23-D01F3
frequency synthesiser - see Frequency synthesis U23-D01B
improving loop characteristics U23-D01F
lock detector U23-D01A5
loop filter U23-D01A7
loop filter, variable characteristic U23-D01A7A
modulation using U23-D01C
noise reduction in U23-D01F5
phase detector U23-D01A3A
phase error reduction U23-D01F4
voltage controlled oscillator U23-D01A1
Delivering
coin T05-K01
manufactured objects T05-K05
valuable paper, banknotes, mail T05-K02
Delta modulation U21-A04A
Delta-sigma converters U21-A04A
sampling aspects U21-A03F6
Demagnetising
coil V02-D
magnetic heads T03-A04B1
ships W06-C09
TV CRT W03-A08A4
Demand-type pacemaker S05-A01A1
Demister
ohmic resistance heating X25-B01C1C
ohmic resistance heating, vehicle X22-J02A
Demodulation
AM/FM combined U23-P05
amplitude U23-K
amplitude-locked loop U24-C01G
angle U23-L
data transmission W01-A09E2
digital modulation/demodulation U23-P01
frequency U23-L
general U23-P
phase U23-L
phase-locked loop U23-D01C
pulse U22-E05A
recorded television/video signal W04-F01A1A
Demodulator
broadcast radio receiver W03-B02C
communications receiver W02-G03E
data transmission U23-P01
W01-A09E2
digital implementation U23-P03
optical communication W02-C04A3A
systems aspects U23-P04
TV receiver sound W03-A03C1
TV receiver video W03-A03C5
Densimeter S03-F01
Densitometer
optical reflection type S03-E04B1B
optical scattering type S03-E04C1
optical transmission type S03-E04B1A
Density measurement
by immersion of objects in fluids S03-F01A
by measuring pressure differences S03-F01A
from flow properties S03-F01X
from transmission of radiation S03-F01A
vibrating tube densimeter S03-F01X
Dentistry S05-E
diagnostic equipment - electrical S05-E03
equipment – mechanical P32-A01
peripherals, lamp, chair S05-E02
surgery appts S05-E01
Depilation
electical S05-A04
laser S05-A03A2
Depolariser, battery electrode X16-E07
Deposit, reverse vending T05-H02E
Deformation measurement S02-A10F
using electical / magnetic method S02-A02
S02-A10F
using mechanical method S02-A01
S02-A10F
using optical method S02-A03
S02-A10F
using sound or ultrasound S02-A05B
S02-A10F
using simulation T01-J15A3
Depth measurement S02-A10B
using electical / magnetic method S02-A02
S02-A10B
using mechanical method S02-A01
S02-A10B
using optical method S02-A03
S02-A10B
using sound or ultrasound S02-A05B
S02-A10B
Desensitizing reduction, radio receiver W02-G03B4E
Design, computer aided (CAD) T01-J15
data networks W01-A06D
digital filters and DSP U22-G03A5
electrical networks T01-J15A4
hardware T01-J15A
ICs U11-G
PCB V04-R11
Desk calculator T01-J01
Desk top publishing (DTP) T01-J11B
Desk, for computer T04-L07
Destroying/recycling/ recording media
magnetic T03-A01R
optical T03-B01R
magneto-optical T03-D01R
general T03-H02R
Detachable lens, digital/video camera W04-M01C1D

Detection
conception S05-D09
digital mark T04-A03
movement, using pattern recognition T04-D07D1
ovulation S05-D09
Detectors
AM U23-K
broadcast radio receiver W03-B02C
communications radio receiver W02-G03E
FM U23-L
optical detector S03-A
particles V05-H
radiation V05-H
Determination of sex S05-D09
Detonator
blasting X25-D01
blasting, mining X25-D02
weapon W07-C01
Developer material
for semiconductor mfr. U11-A11
printing S06-K07B
Developing process
electrophotographic, using liquid developer S06-E04B
electrophotographic, using magnetic brush S06-E04C
electrophotographic, using solid developer S06-E04A
lithography, semiconductor mfr. U11-C04A1C
Diac - see Thyristors, bidirectional U12-D01B2
Diagnosis, medical S05-D
diagnostic display S05-D07
endoscope S05-D04
endoscope, imaging aspects S05-D04B
eye testing S05-D05
in dentistry S05-E03
information systems S05-D06
medical endoscope, positioning and control S05-D04A
NMR S05-D02B
nuclear radiation S05-D02C
simulation and education systems S05-P
sonic or ultrasonic S05-D03
ultrasonic transducer arrangements S05-D03A2
using expert systems S05-D06
using UV, IR, Laser S05-D02X
using visible light S05-D02X
X-ray S05-D02A
Dial
clock or watch S04-A02A
for indicating/ recording measured values S02-K06A
Dialling, telephone
automatic dialling W01-C01B1
bar code input T04-A03B1 W01-C01B1C
dial format detection W01-C01B7
dial pulses W01-C01B2A
dial signal generator W01-C01B2
DTMF W01-C01B2C
external module W01-C01B1D
hands free dialling W01-C01B1B
mechanical lock W01-C01B5D
number storage at exchange W01-C02B5
OCR input W01-C01B1C
preventing dialling of predetermined numbers W01-C01B5C
repertory W01-C01B1A
reply dialling W01-C01B1E
security/restricted dialling W01-C01B5
voice dialling W01-C01B1B
voice recognition-based secure dialling W01-C01B5B
Dialysis S05-H
blood treatment circuits S05-H01
dialysis systems S05-H01
Diameter measurement S02-A10A
using electrical/magnetic method S02-A02 S02-A10A
using mechanical method S02-A01 S02-A10A
using optical method S02-A03 S02-A10A
Diamond - see AIV elements and their compounds
Diaphragm, acoustic transducer
general transducers V06-V02A
loudspeakers V06-V02A V06-V04A1
manufacture V06-V03A1
Dice games P36-C07 W04-X02B7
Dichroism, optical, materials investigation S03-E04B5
Dicing, semiconductor wafer U11-C06A2
Die bonding
for semiconductor device package U11-E02A3
metallurgical aspects U11-D03B3
Die, semiconductor, handling U11-F02A3
Dielectric
heating X25-B02D
material X12-E01 X12-E02
material manufacture V01-B03B3
strength testing S01-G03
waveguide conductor W02-A01B3
waveguide resonator W02-A03A5
Dielectric barrier discharge lamp X26-A01C
construction - see Discharge lamp X26-A02
Dielectric constant
measuring S01-D05A3
measuring- materials investigation S03-E02C
Dielectric for capacitors V01-B03
inorganic material V01-B03A1
organic material V01-B03B1
Dielectric isolation, for IC components U11-C08A4
Dielectric material (see also Insulation material)
manufacture V01-B03A3
Dielectric test, for semiconductor U11-F01A9
Diesel engine Q51-D03
compression ignition, vehicle X22-A01A3 X22-A20C
electric power plant X11-C02
electric train propulsion X23-A01A2

electric train propulsion, control X23-A01A2
ignition, using glow plug heating X22-A01A3
X22-A20C
testing S02-J01A
Diesel-electric locomotive X23-A01A2
X11-D
X11-U03
generator X23-A01A2
Diesel-generator rotary UPS X12-H02A
Differential Q64
vehicle Q13-A09
Differential amplifier U24-G02A1
Differential modulation U21-A04B
Differential of machine, testing S02-J03A
Differential phase shift keying W01-A09B
Differential protection X13-C01D
generator X13-C04B
transformer X13-C04B
transmission line X13-C04A
Differential thermal analysis S03-E01E
Diffraction
grating, generating spectrum S03-A02A
grating, testing S02-J04A9
optical, materials investigation S03-E04B5
X-ray S03-E06C
X-ray, flaw detection S03-E06C1
Diffused isolation structure, transistor
Diffusion, semiconductor doping U11-C02A
apparatus U11-C02A1
dopants U11-A01M
method U11-C02A2
Digging equipment X25-D01
Digital
amplifier U24-G02E
audio tape recorder (DAT) - see Digital audio tape recorder W04-B12G
broadcast receiver architecture W03-B07
camera – see Electronic still picture camera W04-M01B1
communications receiver architecture – see Digital communications receiver architecture W02-G03K
filter - see Digital filter U22-G01
information transmission W01-A
mark sensing T04-A03
marked record carrier T04-C
marking or erasure T04-A02
radio transceiver architecture W02-G02K
radio transmitter architecture W02-G01K
signal processor (DSP) - see Digital signal processor U22-G03
speech processing (general) W04-V05
speech processing for telephone W01-C01C7
transducers, electromechanical V06-V01L
TV receiver architecture W03-A11K
versatile disk player/recorder W04-C10A2
videoe disk player/recorder W04-C10A2
video tape recorder (DVTR) - see Digital video tape recorder W04-B10G
Digital amplifier U24-G02E
Digital-analogue conversion U21-A02
binary weighted U21-A02A1
broader system details U21-A02B1
clock arrangements U21-A02B1C
digital-analogue converter U21-A02A
improvements to DAC performance U21-A02B7
increased accuracy U21-A02B7N
increased conversion speed U21-A02B7C
increased precision U21-A02B7N
increased range U21-A02B7E
increased resolution U21-A02B7A
increased voltage swing U21-A02B7E
integrated circuit details U13-B
input/output circuitry U21-A02B1A
ladder-type U21-A02A2
noise reduction and error correction U21-A02B7G
reducing power consumption U21-A02B7J
resistor string U21-A02A4
size reduction U21-A02B7L
switch capacitor U21-A02A5
testing and calibrating U21-A02B2
using superconducting devices U14-F02C
U21-A02A
voltage reference circuits U21-A02B1B
with intermediate conversion to time or frequency of pulses U21-A02A3
Digital audio tape recorder W04-B12G
construction W04-B12D
control/interfacing W04-B12C
head T03-A03
W04-B12A
head positioning (see Helical scan recording also) T03-A05D
power supply W04-B12C
remote control W04-B12C
W04-E04A
tape transport T03-E
W04-B12A
W04-B12A
Digital camera W04-M01B1
aperture control W04-M01B1
W04-M01D5C
battery W04-M01B1
W04-M01P5
battery charger W04-M01B1
W04-M01P5A
X16-G
calibration W04-M01B1
W04-M01D2J
camera phone W01-C01D3C
W01-C01P6C
W04-M01B1
camera shake compensation W04-M01B1
W04-M01D7
carrying case W04-M01B1
W04-M01G5
combined with mobile phone W01-C01D3C
W01-C01P6C
W04-M01B1
detachable lens W04-M01B1
W04-M01C1D
digital/static recording type W04-M01B1C
display drive circuitry W04-M01B1
W04-M01D3C
display (novel) W04-M01B1
W04-M01D3A
dynamic (e.g. disk) recording type W04-M01B1A
(electro)mechanical iris diaphragm W04-M01B1
W04-M01C8C

(electro)mechanical iris diaphragm drive W04-M01B1
W04-M01C8E
(electro)mechanical shutter W04-M01B1
W04-M01C7C
(electro)mechanical shutter drive W04-M01B1
W04-M01C7E
electro-optical iris diaphragm W04-M01B1
W04-M01C8A
electro-optical shutter W04-M01B1
W04-M01C7A
electronic flash W04-M01B1
W04-M01H5
electronic image stabilizer W04-M01B1
W04-M01D7
W04-N05C3A
electronic shutter W04-M01B1
W04-M01B5A
W04-M01D5C
exposure conditions evaluation W04-M01B1
W04-M01D5A
exposure control W04-M01B1
W04-M01D5
eye gaze direction determination W04-M01B1
W04-M01D2G
face detection W04-M01B1
W04-M01D2F
flash (electronic) W04-M01B1
W04-M01H5
focus control (automatic) W04-M01B1
W04-M01D5D
focus detection W04-M01B1
W04-M01D2E
GUI control aspects W04-M01B1
W04-M01D1C
hand tremor compensation W04-M01B1
W04-M01D7
image cropping (in camera) W04-M01B1
W04-M01D6
W04-N05C3G
image processing W04-M01B1
W04-M01D6
image sensor U13-A01
W04-M01B5
inhibiting use in restricted area W04-M01B1
W04-M01D2R
integral hard copy unit W04-D10
W04-M01B1
W04-M01K
interchangeable lens W04-M01B1
W04-M01C1D
interfacing with detachable lens W04-M01B1
W04-M01C1D
W04-M01D8A
interfacing with PC W04-M01B1
W04-M01D8C
W04-K08
infrared(IR) cut filter W04-M01B1
W04-M01C3C
lens barrel internal construction W04-M01B1
W04-M01C1
W04-M01G1B
lens cap/cover W04-M01B1
W04-M01C9
lens, detachable W04-M01B1
W04-M01C1D
lens drive for focusing W04-M01B1
W04-M01C1B
lens drive for zooming W04-M01B1
W04-M01C1C
lens, novel W04-M01B1
W04-M01C1A
liquid crystal iris diaphragm V07-K01A2
W04-M01B1
W04-M01C8A
liquid crystal shutter W04-M01B1
W04-M01C7A
magnification control W04-M01B1
W04-M01D5E
memory card W04-M01B1C
W04-P01C1
multiple cameras in same housing W04-M01B1
W04-M01V1
neutral density (ND) filter W04-M01B1
W04-M01C3D
optical image stabilizer W04-M01B1
W04-M01C9
W04-M01D7
optical filter W04-M01B1
W04-M01C3
preventing use in restricted area W04-M01B1
W04-M01D2R
range finder W04-M01B1
W04-M01D2C
red-eye editing in camera W04-M01B1
W04-M01D6
W04-N05C5E
red-eye prevention camera flash W04-M01B1
W04-M01H5A
remote control W04-M01B1
W04-M01D1A
self-checking W04-M01B1
W04-M01D2J
shutter timing control W04-M01B1
W04-M01D5C
single lens reflex (SLR/DSLR) W04-M01B1S
software update /version control T01-F05F
W04-M01B1
W04-M01D2S
testing W04-M01B1
W04-M01D2J
touchscreen W04-M01B1
W04-M01D3E
tripod W04-M01B1
W04-M01G7
user controls W04-M01B1
W04-M01D1
video recording aspects W04-M01B1E
viewfinder W04-M01B1
W04-M01D3
version control for software T01-F05F
W04-M01B1
W04-M01D2S
zoom control W04-M01B1
W04-M01D5E

Digital circuits
logic analyser (see also Testing) S01-G01A5
testing S01-G01A
testing integrated circuits (see also Testing) S01-G01A1
testing modules or cards (see also Testing) S01-G01A3

Digital communications receiver architecture W02-G03K
AD conversion W02-G03K3

characterised by use of DSP W02-G03K1
DA conversion W02-G03K8
digital mixing / DDC W02-G03K5
filtering W02-G03K6
transform functions W02-G03K7

Digital computer
analog input T01-C08
analog output T01-C08
audio input T01-C08
audio output T01-C08
buffer/interface T01-C07C2
coding T01-D02
CRT display interface T01-C04A
data comparing T01-E01C
data conversion T01-D
data encryption T01-D01
data exchange T01-H07
data exchange, LAN /WAN interface T01-C03A
data exchange, modem interface T01-C03B
data exchange, network interface T01-C03A
data exchange, telephone interface T01-C03B
data selecting T01-E01B
data shifting T01-D03
data sorting T01-E01A
diagnostics T01-G08
T01-G08A
display output interface T01-C04
display panel interface T01-C04B
error correction T01-G
error detection T01-G
error detection, checking codes T01-G01A
error detection, parity T01-G01A1
fault simulation T01-G07
fibre-optic interface T01-C07B
fluid pressure T01-B
input T01-C
interconnections T01-C07
interface, asynchronous /synchronous operation T01-C07A
logic simulation T01-G
manual device input interface T01-C02
mechanical T01-A
monitoring T01-G
output T01-C
peripheral control T01-H05
plotter output interface T01-C05B
printer output interface T01-C05A
punched cards interface T01-C01
scanning, interface T01-C06
smart card reader interface T01-C07C1
sound input T01-C08
sound output T01-C08
speech input T01-C08A
speech output T01-C08A
storage systems T01-J10C2
test T01-G02
test sequence generation T01-G07A

Digital electricity meter S01-B03

Digital electrostatic
record carrier reading T04-A03A
record carrier writing T04-A02A

Digital EQ (equalisation) W03-C05E

Digital filter U22-G01
adaptive U22-G01A5
bandpass filter U22-G01B2
bandstop filter U22-G01B4
characterised by function U22-G01B
coefficient derivation details U22-G01A5A
comb filter U22-G01B5
decimation filter U22-G01B6
design T01-J08B
T01-J15A
U22-G03A5
finite impulse response (FIR) U22-G01A3
highpass filter U22-G01B3
infinite impulse response (IIR) U22-G01A1
Kalman filter U22-G01A1B
lowpass filter U22-G01B1
matched filter U22-G01A5B
non-recursive U22-G01A3
notch filter U22-G01B4
processing details (computing) T01-J04B2
T01-J08B
recursive U22-G01A1
transversal U22-G01A3
variable characteristic U22-G01A5
wave type U22-G01A1A

Digital frequency multiplier/divider
counter circuit implementations U21-D
for converted sinusoidal signals U23-B02
general, for pulses U22-D05A

Digital function generator T01-J17

Digital information transmission W01-A
baseband systems W01-A08
broadband systems W01-A09
code conversion W01-A02
collision detection or avoidance W01-A06F1A
DC systems W01-A08
error detection/correction using codes W01-A01B
error detection/prevention W01-A01
error detection/prevention by diversity, repeating or returning W01-A01A
error detection/prevention by interleaving W01-A01B5
error detection/prevention using format W01-A01B3
general systems or equipment W01-A07
hybrid coding scheme W01-A01B4
link quality checking W01-A01C
multiple use of transmission path W01-A03
networks W01-A06
protocol, general W01-A07G
protocol, network W01-A06F
secret communication W01-A05
standard code systems W01-A07
synchronisation W01-A04

Digital integrated circuits U13-C
bipolar U13-C01
bipolar, with diodes and/or capacitors and/or resistors U13-C01A
combined bipolar and FET U13-C03
FET U13-C02
FET, with diodes and/or capacitors and/or resistors U13-C02C
MESFET, JFET U13-C02B
MOSFET U13-C02A
on-chip testing U13-C07
trimming U13-C08
wafer scale U13-C06
with repetitive structure, arrays U13-C04

Digital magnetic
record carrier reading T04-A03A

record carrier writing T04-A02A
record carriers T04-C01

Digital modulation/demodulation U23-P01
amplitude modulation U23-P01C
W01-A09A1
angle modulation U23-P01A
ASK U23-P01C1
W01-A09A1
coherent detection U23-P01C3A
demodulator circuits U23-P01J3
W01-A09E2
FSK U23-P01A1
W01-A09A2
hybrid modulation U23-P01E
W01-A09C
modulator circuits U23-P01J1
W01-A09E1
MSK U23-P01A5
W01-A09B
multi-frequency code techniques U23-P01G
W01-A09D
PSK U23-P01A3
W01-A09B
QAM U23-P01E1
W01-A09C1
QPSK U23-P01A3
W01-A09B

Digital multimedia broadcast (DMB) receiver W01-C01D3C
W01-C01P6G
W03-A11G5

Digital network (DSP) U22-G03
addition and multiplication U22-G03C1A
applications U22-G03E3
array handling U22-G03C1E
construction U22-G03A
correlation U22-G03E3D
delay U22-G03C1C
digital sampling U22-G03B
down sampling U22-G03B1C
equalisation U22-G03E3C
functions U22-G03C1
increasing processing speed U22-G03C2E
integration U22-G03C1G
noise reducing/cancelling U22-G03E3A
operation U22-G03E1
performance U22-G03C2
phase shifting and delay U22-G03E3F
reduction in power consumption U22-G03C2C
re-sampling U22-G03B1
size reduction U22-G03C2A
software and algorithms U22-G03E1A
testing U22-G03A1
up-sampling U22-G03B1A

Digital phase-locked loop U23-D01A8B

Digital phase/frequency comparator U23-C02

Digital photo frame W04-E30A5A

Digital position encoder
absolute type U21-A03J5
inductive/magnetic U21-A03J2
photoelectric U21-A03J1

Digital protection X13-C15
A/D signal conversion X13-C15N2
artificial intelligence X13-C15B
digital relays X13-C15
expert systems X13-C15B1
fuzzy logic X13-C15C
low power protectors U24-F05
microprocessors X13-C15A
neural networks X13-C15B2
numeric relays X13-C15
protection algorithms X13-C15N3
signal conditioning X13-C15N1

Digital Radio Mondiale (DRM) W01-A09C
W02-D05C1
W02-K07C

Digital recording
general T03-P01
magnetic T03-A06C

Digital signal processor U22-G03
addition and multiplication U22-G03C1A
applications U22-G03E3
array handling U22-G03C1E
construction U22-G03A
correlation U22-G03E3D
delay U22-G03C1C
design T01-J08A2
T01-J15A
U22-G03A5
equalisation U22-G03E3C
functions U22-G03C1
increasing processing speed U22-G03C2E
noise cancelling U22-G03E3A
operation U22-G03E1
performance U22-G03C2
phase shifting and delay U22-G03E3F
reduction in power consumption U22-G03C2C
size reduction U22-G03C2A
software and algorithms U22-G03E1A
testing U22-G03A1

Digital SLR camera W04-M01B1S

Digital static stores U14-A
addressing circuitry U14-A08
associative U14-A05
magnetic core type U14-A04X
permanent U14-A06
reading/writing U14-A07
semi-permanent U14-A06
using (electro-) optical elements U14-A02
using bipolar transistors U14-A03A1
using FETs U14-A03B
using magnetic elements U14-A04

Digital data transmission W01-A

Digital versatile disk player/recorder (DVD)
W04-C10A3

Digital TV receiver W03-A11G
combined with analogue receiver W03-A11G1
set top box W03-A11G
W03-A16E

Digital video broadcasting (DVB)
broadcast system W02-F07M1
broadcast system, reduced data rate W02-F07M1A
receiver W03-A11G

Digital video tape recorder (DVTR) W04-B10G
construction W04-B10D
control/interfacing W04-B10C
head T03-A03

head positioning T03-A05D W04-B10A
power supply W04-B10C
remote control W04-B10C W04-E04A
tape transport T03-E W04-B10A

Digital Video Transmission W02-F07M
for broadcasting W02-F07M1
non-broadcasting W02-F07M5

Digitiser
computer input T04-M
digitiser including flat bed scanner T04-M01
hand held scanner T04-M02
tablet, for computer input T04-F02A5

Dimension measurement - see Measuring

DIMM T01-H01B3A

Dimmer control
discharge lamp X26-C01C
fluorescent lamp X26-C01B5A X26-C01C
incandescent lamp X26-C02C
lamp, general X26-C03A5

Diode ring mixer U23-J01A1 U23-J01C5E

Diodes, semiconductor
breakdown U12-C01D
for non-reprogrammable memory elements U14-A06B1
light emitting U12-A01A
manufacture U11-C18B1
MIM U12-C01E
packages for U11-D01B1
rectifier U12-C01C
testing U11-F01C5 U12-C01
tunnel U12-C01G
varicap diodes V01-B02B1
Zener U12-C01D

Dip-stick, for level indicating S02-C06X

Dipole antenna
array of dipoles W02-B05B1
folded, linear W02-B01B1A
folded, ring W02-B01B2A
linear W02-B01B1
spiral W02-B01B3

Direct and low IF conversion receiver
broadcast radio receiver W03-B01A6
communications receiver W02-G03A8
TV receiver W03-A01B6

Direct connection V04-A
zebra V04-A07
anisotropic V04-A11
ball maintaining contact V04-A04X
bent V04-A02
cam maintaining contact V04-A04X
clamping member acted on by nut V04-A04A
clamping member acted on by screw V04-A04A
clip V04-A04C
conductive adhesive V04-A06
cone maintaining contact V04-A04X
crimped, ferrule V04-A02 X12-G02A
crimped, sleeve V04-A02 X12-G02A
crimping appts./method V04-P01A X12-G01E
earth V04-A05
elastomer block with alternate conductive/insulating areas V04-A07
grounding electrode V04-A05
IDC V04-A03 V04-M07
insulating using end cap V04-A08
insulating using sleeve V04-A08
insulation displacement member V04-A03 V04-M07
insulation penetrating member V04-A03 V04-M07
manufacture V04-P
manufacture, riveting V04-P08
manufacture, soldering V04-P08 X24-A
manufacture, welding V04-P08
needle point for insulation penetration V04-A03 V04-M07
nut clamping member V04-A04B
prong for insulation penetration V04-A03 V04-M07
repair V04-P
resilient member V04-A04C
riveted V04-A01
screw clamping member V04-A04B
shape memory contact V04-A09
slotted-plate for insulation penetration V04-M07
slotted-plate, for insulation penetration V04-A03
soldered V04-A01
spring V04-A04C
superconducting cable/wire V04-A10 X12-D06
testing V04-P
twisted V04-A02
wedge maintaining contact V04-A04X
welded V04-A01
wire wrapping appts/method V04-P01C
wrapped V04-A02

Direct coupled amplifier U24-G02D

Direct digital conversion (digital radio receivers) W02-G03K5

Direct fluid coating equipment P42-B
brush transfer of fluid P42-B05
immersion or passage through liquid bath P42-B01
pouring or flowing of liquid over surface P42-B03
roller transfer of fluid P42-B05
spin coating P42-B03

Direct frequency synthesis U23-F03
analogue circuitry U23-F03A7
D/A and A/D aspects U23-F03A5
improve spectral purity U23-F03B5
improving frequency resolution U23-F03B1
increasing frequency transition U23-F03B3
memory aspect and look-up tables U23-F03A1
phase accumulators U23-F03A3

synthesiser performance U23-F03B
Direct numerical control T06-A04A2A
Direct retinal projection display
general W04-Q01L
W05-E07
TV receiver W03-A08E7A
W04-Q01L
virtual reality W04-Q01L
W04-W07E1A
Direction finders W06-A02
Direction finding
automatic RDF systems W06-A02A1
RDF W06-A02A
tracking object with electronic imaging
W06-A02C1
using light W06-A02C
using radio waves W06-A02A
using sonic/ultrasonic waves W06-A02E
Direction of movement, indicating/recording
S02-H
Direction switch V03-C06C
Disaster warnings and alarm systems
W05-B08
adverse weather conditions W05-B08C
earthquake alarm W05-B08A
terrorist attack alarm W05-B08G
utility failure W05-B08J
utility failure, commercial W05-B08J5
utility failure, domestic W05-B08J1
utility failure, industrial W05-B08J3
utility failure, producer W05-B08J7
Disk computer memory T01-H01B1
RAID T01-H01B1A
Disc mill P41-A03C
Discharge (electrical)
corona X12-F04
investigating S03-E10C
Discharge lamp
amalgam X26-A02X
arc X26-A01A
ballast X26-C01B1
bulb X26-A02A2
chamber X26-A02A2
choke X26-C01B1
circuit, integral with bulb X26-A02G
construction X26-A02
container X26-A02A2
inner X26-A02A2A
outer X26-A02A2B
container manufacture X26-A03B
control/operation X26-C01
control/operation, electrodeless lamp X26-C01B3
control/operation, electronic ballast X26-C01B2
control/operation, flashlamp X26-C01A
control/operation, high pressure X26-C01B4
control/operation, ignition circuit X26-C01B2
control/operation, inductive ballast X26-C01B1
control/operation, intensity X26-C01C
control/operation, inverter-type electronic ballast X26-C01B2A
control/operation, low pressure X26-C01B5
control/operation, starter X26-C01B
control/operation, starter switch X26-C01B1
cooling X26-A02X
deuterium arc lamp X26-A01E
dielectric barrier X26-A01C
dimming X26-C01C
electrode X26-A02B
electrode manufacture X26-A03C
electron stream-type X26-A01A
electronic ballast X26-C01B2
electronic ballast, inverter X26-C01B2A
end cap welding X26-A03A
envelope X26-A02A2
envelope manufacture X26-A03B
external electrode-type X26-A01A
filling X26-A02C
filling, gas X26-A02C
filter X26-A02D
flashing control X26-C01A
fluorescent X26-A01E1
high pressure X26-A01D
holder X26-F
intensity control X26-C01C
U24-D05
inverter X26-C01B2A
leading-in conductor X26-A02A1
low pressure X26-A01E
manufacture X26-A03
manufacture, container X26-A03B
manufacture, electrode X26-A03C
manufacture, end caps welding X26-A03A
manufacture, materials recovery X26-A03
manufacture, packaging X26-A03
microwave X26-A01B
multi-discharge paths-type X26-A01A
non-electronic starter X26-C01B1
operation – see Discharge lamp control/operation X26-C01
packaging X26-A03
phosphors X26-A02D
plasma X26-A01B
pressure maintenance X26-A02X
protection X26-A02X
reactor X26-C01B1
V02-G01C
reflector, integral with bulb X26-A02F
screen X26-A02B
seal X26-A02A1
shield X26-A02B
starter switch X26-C01B1
starting choke X26-C01B1
testing X26-A03
V02-G01A
transformer X26-C01B1
tube X26-A02A2
tube-shatter prevention X26-A02X
Discharge tube
analysing - see Analysing tube V05-F01
anode (general) V05-M03E
cathode ray tube - see CRT V05-D
cathode, thermionic (general) V05-M02
coatings applied to vessel (general)
V05-M05F
cooling (general) V05-M07
electrodes (general) V05-M03
electron microscope - see Analysing tube
V05-F01A
emitting electrode, non-thermionic (general) V05-M03A
energy spectrometer V05-J01A5

gas filling compositions V05-M09
gas-filled circuit protector V05-A05
X13-C03A
gas-filled switching tube V05-A03
X13-A04H
general details V05-M
getter (general) V05-M06
getter (general) - see Discharge tube getter
V05-M06
grid (general) V05-M03C
ion gun (general) V05-M03G
ion microscope - see Analysing tube
V05-F01A2
lamp - see Discharge lamp X26-A
lead-ins (general) V05-M05B
Lenard tube V05-J05
manufacture - see Discharge tube mfr.
V05-L
mass spectrometer V05-J01A1
microfabricated (complete device) - see Microfabricated cold cathode V05-B05
microfabricated cold cathode (general)
V05-M03A1
photoelectric V05-G
plasma display - see Plasma display V05-A01
plasma processing - see Processing tube
V05-F05C
radiative cooling (general) V05-M07A
screen (imaging, general) V05-M01
screen separate from tube V05-M01C
seals (general) V05-M05C
solid thermionic cathode V05-M02A
testing - see Discharge tube mfr V05-L07E1
testing, electric properties S01-G02A
transit-time - see Transit time tube V05-C01
vacuum locks V05-M05D
vessel V05-M05A
X-ray - see X-ray tube V05-E01
X-ray microscope - see Analysing tube
V05-F01A3

Discharge tube getter
CRT V05-D07E
general V05-M06
lamp X26-A02X

Discharge tube mfr. V05-L
adjustment V05-L07E5
ageing V05-L07E3
anode V05-L01B3
applying coatings/marking to vessel
V05-L03B
applying conductive coatings V05-L03B1
applying markings V05-L03B5
applying optical coatings V05-L03B3
assembly V05-L03C
by tube type - see Discharge tube manufacture, tube type V05-L05
cold cathode V05-L01A3
electrode system assembly V05-L01B4
electrodes (general) V05-L01
electron gun V05-L01B4
electron-optical systems V05-L01B4
emitting electrodes V05-L01A
evacuating V05-L03C5C
exhausting V05-L03C5C
field emission electrode V05-L01A3
filling V05-L03C5
general aspects of mfr. V05-L07
getter flashing V05-L03C7A
getter mfr. V05-L06
grid V05-L01B1
image screen V05-L02
inserting electrode system V05-L03C1
inspecting finished screen (imaging) screen
V05-L02H5
joining vessel parts V05-L03C5
lamp - see Discharge lamp X26-A03
life testing V05-L07E3
microfabricated cold cathode V05-L01A3A
multistep processes V05-L07A
non-emitting electrodes V05-L01B
packing V05-L07E7
plasma display electrode V05-L01B6
V05-L05A1
post sealing treatment V05-L03C7
pretreatment of vessel surfaces V05-L03C3
pretreatment of vessels, sealing V05-L03C3A
rectification V05-L07E5
salvage of tube components/materials
V05-L07E6
screen (imaging) V05-L02
screen (non-imaging) V05-L01B8
screen baking V05-L02D
screen electrode V05-L01B8
screen material processing V05-L02M
sealing V05-L03C5A
secondary emission electrode V05-L01A5
shadow mask V05-L01B5
V05-L05D1B
shipping V05-L07E7
slow wave structures V05-L01B7
soak testing V05-L07E3
sputter target V05-L01B9
V05-L05F5
tension band fitting V05-L03C7C
tension band mfr. V05-L03D
testing V05-L07E1
testing complete device V05-L07E1C
testing electric properties S01-G02A
testing imaging screen V05-L02H5
testing mfg. process/appts. V05-L07E1B
testing part-finished tube V05-L07E1A
testing, electric properties V05-L07E1
thermionic cathode V05-L01A1
thermionic cathode heater V05-L01A1A
transport equipment moving between processing V05-L07C
tube filling V05-L03C5E
tunnelling microscope probe electrode
V05-L01B9
V05-L05F1
type of tube V05-L05
vessel coating/marking V05-L03B
vessel evacuation V05-L03C5C
vessel part joining V05-L03C5
vessel per se V05-L03A7
vessel sealing V05-L03C5A
vessel treatment, post-sealing V05-L03C7C
workpiece holder V05-L07B
workpiece positioning V05-L07D

Discharge tube mfr., tube type V05-L05
analysis tube V05-L05F1
camera tube V05-L05D2
cathode ray tube V05-L05D
cathode ray tube display V05-L05D1B

cold cathode devices V05-L05B3
electron multiplier tube V05-L05K
fluorescent display V05-L05D1C
image converter V05-L05D3
image intensifier V05-L05D3
ion beam tube V05-L05E
microfabricated cold cathode device U11-C18B9 V05-L05B5
photoelectric tube V05-L05G
processing tube V05-L05F5
radiation detector V05-L05H
spectrometer tube V05-L05J
thermionic tube V05-L05B1
transit time tube V05-L05C
X-ray generator V05-L05E

Discone antenna W02-B01C5

Disconnector X13-B01

Discrete article dispensing T05-H04

Discrete cosine transform (DCT) video signal encoder W04-P01A3

Discrete device intended for use in integrated circuit U12-Q

Discrete semiconductor device package U11-D01B

Disk cassette T03-H01A T03-N01

Disk drive T03-F
air filter T03-F02G1
automatic disk changing T03-F01
bearings T03-F02C3C
brake T03-F02C5
capacitive T03-C01 T03-F
card-type (PCMCIA) drive T03-A08A1E
carrier pressure arrangement T03-F02E
casing T03-F02L1
centrifugal-action disk lubricant dispenser T03-F02X
chucking and clamping of disk T03-F01B T03-F02C3A
construction in general T03-F02L
contaminant trapping T03-F02G1
cooling/ventilation T03-F02G
different size disk handling T03-F01A7
disk changing control system T03-F01C
disk size detection T03-F01C
drive components T03-F02C
drive motor T03-F02C1 V06-M
ejection system T03-F01A5
handling different-size disks T03-F01A7
internal construction T03-F02L5
lubricant dispenser for disk surface T03-F02X
magnetic (see Magnetic disk drive) T03-A08A T03-F
magneto-optical T03-D01K1 T03-F W04-D20A
manual loading T03-F01D
motor tilt control T03-F02A5
multi-carrier type drive T03-F02J
optical T03-B10A T03-F W04-C10A
particle trapping T03-F02G1
PCMCIA T03-A08A1E
RAID T03-A08A5A
shutter opener T03-F01A1
speed control T03-F02A1
spindle T03-F02C3
turntable T03-F02C3

Disk drive for computer input T04-P

Dishwasher X27-D01B

Disinfection X27-D10
medical S05-G01

Dislocations, semiconductors, measurement U11-F01A2

Dispenser S02-C04 X25-F03B
air X25-F03B2
comestible X25-F03B1
expanding/contracting chamber type S02-C04A
fuel X25-F03B2
moving measuring chamber type S02-C04B
other types S02-C04X
stationary measuring chamber S02-C04C
vending machine T05-H

Dispensing
control T06-D15 X25-F03B
discrete articles, vending machine T05-H04
fluid or granular material, vending machine T05-H06

Displacement measurement S02-A10B
using electrical/magnetic method S02-A02 S02-A10B
using mechanical method S02-A01 S02-A10B
using optical method S02-A03 S02-A10B

Display
advertising W05-E03A
arrangements, television receiver W03-A08
back lighting for computer type T04-H03D X26-U04A1
back-lighting (general) X26-U04A1
back-lighting (LCD) U14-K01A4C X26-U04A1
based on ceramics exhibiting Kerr or Pockels effect U14-K04
broadcast radio receiver tuning W03-B01C
cathode ray tube, for TV receiver W03-A08A
cathode ray tube, for VDU T04-H01
character forming (general) W05-E01
composite W05-E05C
construction T04-H04 W05-E05G
CRT, control of for TV receiver W03-A08A
CRT, control of for VDU T04-H01
drive circuitry (general) W05-E01A
edge-lighting (general) X26-U04A2
electrochromic - see Electrochromic display U14-K02
electroluminescent, control of for TV receiver W03-A08J
electroluminescent, control of for VDU T04-H03C3
electroluminescent, control of, for VDU T04-H03C3
electronic, for clock or watch S04-B04

electrophoretic - see Electrophoretic display U14-K03
electrophoretic, control of, for VDU T04-H03C9
element arrangements (general) W05-E01B
facsimile S06-K07A1
filters (general) W05-E05A
fluorescent, control of T04-H03C9
head-up for aircraft W04-Q01K
W06-B01B3
head-up, general W04-Q01K
head-up, aircraft instrumentation W06-B01B3
head-up, vehicle instrumentation X22-E07
LCD T04-H03C2A
LED control of for VDU T04-H03C1A
LED, control of for VDU T04-H03C1
light guide X26-D01F
X26-U04A
liquid crystal - see LCD U14-K01
matrix, (general) W05-E01
matrix, control of (general) W05-E01A
matrix, control of for VDU T04-H03B
medical diagnostic monitor S05-D07
MEMS T04-H03C8
moving band type (general) W05-E02
navigation system S02-B08E
on-screen display (OSD) for TV receiver W03-A13G
panel, gas discharge V05-A01
plasma control of for VDU T04-H03C4A
plasma, control of for TV receiver W03-A08D
plasma, control of for VDU T04-H03C4
printer S06-k07A1
projection TV W04-Q01
radar systems W06-A04C
single beam CRT, control of T04-H01A
single character, control of T04-H03A
sonar systems W06-A05C3A
stereoscopic T04-H06
telephone construction aspects W01-C01A2
telephone display per se W01-C01B3
television receiver W03-A08
vehicle dashboard X22-E

Display, electroluminescent
active matrix switching elements U12-J02E
circuits and drivers U12-J03
inorganic U14-J02D1
organic U14-J02D2

Display tube
cathode ray tube - see CRT V05-D01B
electrical testing of S01-G02
field emission V05-D01C3
fluorescent - see Fluorescent display tube V05-D01C
plasma - see Plasma display V05-A01

Dissipative regulator U24-E02B2D

Distance measurement (see also Measuring)
lidar W06-A06D1
non vehicle use S02-B12B
radar W06-A04A1
recording device S02-B12
sonar W06-A05D1
tachometer S02-B12A
X22-X06F
vehicles S02-B12A

Distance protection X13-C01X

Distortion correction, pincushion, for TV CRT W03-A08A1D

Distortion measurement S01-D03C5

Distortion reduction in amplifiers U24-G03D5

Distributed computer-control system T06-A07A1

Distributed constant devices W02-A

Distributed control system for data networks W01-A06E2B

Distributed control system for telephone switching W01-B02X

Distributed elements, for transit-time tubes V05-C02C

Distributed numerical control T06-A04A2A

Distribution
electric system - see **Electric power distribution/transmission system** X12-H
electronic system U24-H
high power system - see **Electric power distribution/transmission system** X12-H
low power system U24-H

Distribution box X12-G04B
X13-E02

Distribution frames, communications W01-B20

Distribution transformer (see Power transformer also) X12-C01E

Distribution, clock signal for digital computer T01-K
varying clock frequency T01-K01

Distributor
connector V04-L09
IC engine X22-A01C1
pulse - see Pulse distributor U22-D06
vehicle X22-A01C1

Diversity systems, (radio transmission) W02-C03A
direction diversity W02-C03A4
frequency diversity W02-C03A3
hybrid diversity W02-C03A5
MIMO W02-C03A5
modulation diversity W02-C03A9
polarisation diversity W02-C03A4
SDMA W02-C03A4
W02-K09
sideband diversity receiver W02-C03A3B
space diversity W02-C03A1
time diversity W02-C03A2

Dividers, frequency U23-B
analogue U23-B01
counting chain implementation U21-D
digital, for pulse signals U22-D05A
digital, for sinusoidal signals U23-B02
PLL synthesizer U23-D01B1

Diving W06-C09

DLL (see also Delay lock loop) U23-D01D

DMB receiver W01-C01D3C
W01-C01P6G
W03-A11G5

DMD (Digital Mirror Device) V07-F02A
V07-K05

projector W04-Q01B3
DNC T06-A04A2A
Document camera (video) W04-M01J
Document delivery systems T01-J11D
Document handling
confidentiality, see Confidential document handling
office, general T04-J
Document shredder T04-X
X25-X
Doll P36-E05
W04-X03E5
Domestic air conditioning system - see Air conditioning X27-E01B
Domestic electric equipment
blender X27-B03
bottle opener X27-B04
breadmaker X27-C08
can/tin opener X27-B04
coffee machine X27-B01
dishwasher X27-D01B
electric fryer X27-C03A
electric griddle X27-C03C
electric knife X27-B04
electric oven X27-C02
electric rice cooker X27-C04
electric scissors X25-T04G
electric tin opener X27-B04
food processor X27-B03
food warmer X27-B09
heated mug X27-B09
ice cream maker X27-B03
juice extractor X27-B03
kettle X27-B01
microwave oven X27-C01
refrigerator X27-F
toaster X27-B02
tumble drier X27-D02
vacuum cleaner X27-D04
washing machine X27-D01A
with secondary built-in function X27-X03
Domestic heating system – see Heating X27-E01A
Domestic pet X27-H
P14-E02C
animal wear P14-A04
aquarium X27-H01
aquarium, food dispenser X27-H02
aquarium, heater X27-H01
aquarium, lighting X27-H01
aquarium, pump X27-H01
aquarium, water cleaner X27-H01
behaviour controller X27-H03
breeding equipment P14-A05
feeding and drinking P14-A02
food dispenser X27-H02
harness X27-H03
heated pet box X27-H09
housing and fencing P14-A01A
restraints P14-A99
training device X27-H03
P14-A01B
washing and grooming P14-A03
Domestic refrigeration - see Refrigeration
X27-F
Door X25-U01
aircraft Q25-A03C
buildings Q43-A05
bells W04-U09
boat Q24-A03B
control X25-U01
control, lift X25-F04
X25-U01
control, vehicle X22-X05
door switches V03-B01C
train Q21-D15
vehicle Q17-A06
Doped insulator laser V08-A04C
Doping, semiconductor U11-C02
alloying U11-C02J4
combining diffusion and implantation
U11-C02J4
diffusion U11-C02A
ion implantation U11-C02B
layers U11-C02J
structures U11-C02J
Doppler effect
compensation, radio systems W02-C03E4
measuring fluid speed S02-G02X
optical radar W06-A06D2
RF radar W06-A04A2
sonar W06-A05D2
Dosimeters, nuclear(chemical, luminescent or photographic) S03-G02A
Dot-and-dash code, data transmission W01-A07A
Double beam spectrometry S03-A02B
Double layer capacitor V01-B01D
X16-L02
manufacture - see Electrolytic capacitor manufacture V01-B01G8D
X16-L02
stack of cells V01-B01D1
super-capacitor V01-B01D5
Double-sided printed circuit board mfr. (see also PCB mfr.) V04-R05B
DPSK W01-A09B
DQDB W01-A06F
DRAM - see RAM, dynamic
Draughts (game) P36-C01
W04-X02B1
Drawing metal wire X25-A02E
Drilling
control, machine tool T06-D06
X25-A03B
X25-A03F
earth X25-E01
earth, control T06-D12
X25-E01
tool X25-A03B
Drinks cooler X27-B
Drinks heater X27-B
Drive
disk – see Disk drive T03-F02
T03-N01
earth drilling X25-E01
facsimile scanning S06-D04
laser printer scanning S06-E03C

Drive circuitry
electroluminescent display T04-H03C3
T04-H03F
facsimile printhead S06-G03
integral with plasma display V05-A01G1
integral with plasma display, mounting of V05-A01D7
LCD display, driver circuitry T04-H03C2
T04-H03F
LED T04-H03C1
T04-H03F
plasma display, circuit details T04-H03C4
T04-H03F
V05-A01G
Driving recording tape T03-E07
DRM (Digital Radio Mondiale)
broadcast receiver W03-B06E
broadcast system W02-D05C1
W02-K07C
DRM (Digital Rights Management)
audio recording aspects W04-G01L
broadcast radio receiver aspects W03-B06J
interactive broadcast aspects W02-F10N1
TV receiver aspects W03-A16C3
video recording aspects W04-F01L
Drop-out compensation for recording
audio W04-G01D
video W04-F02A
Drug
delivery by ventilator S05-M04
monitoring patient compliance S05-M02
pill counters S05-M02
storage of medicines S05-M03
delivery management systems S05-M01
Drugs
analysing S03-E14A1
detection using NMR S03-C02F1
detection using nuclear radiation S03-C03
detection, for airport baggage Inspection W06-B02A5
medical, administering through skin S05-J02
medical, analysing S05-C05
medical, storage S05-M
Drum, clock or watch S04-A02A
Drum mill P41-A03J
Drum (musical instrument) P86-A05
Drum (packaging container) Q32-A05
Dry cell X16-A01A
Dry cleaning
commercial X25-H09
domestic scale X27-D09
Dry dock equipment W06-C07
Dry separation of solids P41-E01
Drying Q76
air/gas supply Q76-T04
chamber Q76-T01
constructional details Q76-T01
control T06-D20
X25-G
drum Q76-T01
drying method Q76-B
combination Q76-B03
using heat Q76-B01
without using heat Q76-02
heating/refrigeration arrangements Q76-T06
maintenance Q76-G
material conveyor Q76-T03
mixed mode drying/cleaning/disinfecting X27-D07
pre-treatment Q76-A
recycling of drying components Q76-R
ventilation/cooling of drying machine Q76-T08
Drying (applications)
domestic Q76-U01
domestic, clothes X27-D02
domestic, clothes line X27-D02L
domestic, laundry X27-D02
elongated/long materials Q76-U21A
food Q76-U21E
lithography, semiconductor mfr. U11-C04A1A
loose materials Q76-U21B
industrial Q76-U40
X25-G
pharmaceutical/medical Q76-U13
plants Q76-U21E2
semiconductor wafers U11-C06A1B
DSLR camera W04-M01B1S
DSP
broadcast receiver application W03-B07
communications receiver application W02-G03K
computer aspects T01-J08A2
digital filter U22-G01
digital signal processing/networks U22-G03
hearing aid application W04-Y03G
telephone speech processor application W01-C01C7
TV receiver application W03-A11K
DSSC – see Dye sensitized solar cells
U12-A02A8
X15-A02D1
X16-A04
DTP T01-J11B
Dual port memories - see Memories, multiport U14-A08B1
Dual tuner broadcast receiver
radio broadcast receiver W03-B01D
TV receiver W03-A01D
Dual wavelength spectrometry S03-E04A4
Dubbing audio/video recording W04-H05A
Ductility S03-F02X
measuring S03-F02X
Dummy head for binaural stereo W04-R01C1
Dumping solid waste P43-E03
Duplex
multiple use of transmission path W01-A03D
sheet feeding in printer S06-K02A
Duration, measurement S04-C03C2
DVB
broadcast system W02-F07M1
receiver W03-A11G
DVB-H
broadcast system W02-F07M1A

receiver W03-A11G
receiver in mobile phone W01-C01D3C
W01-C01P6G
W03-A11G

DVTR - see Digital video tape recorder

W04-B10G

DVD - see Digital versatile disk W04-C10A

Dye lasers V08-A04D

Dye sensitized solar cells U12-A02A8
X15-A02D1
X16-A04

Dynamic balancing S02-J05

Dynamic braking, electric machines V06-N06
X13-H01B

Dynamic memory
magnetic T01-H01B4
magneto-optical T01-H01B5
optical T01-H01B6

Dynamic RAM - see RAM, dynamic

Dynamic range control, video signal W04-P01E8

Dynamic range extension
amplifier U24-G03D3
radio receiver W02-G03B4E

Dynamo - see Electric machine

Dynamo-electric relay V03-D05E

Dynamometers S02-F02
for vehicles S02-F03B

E

EAROM - see ROMs, electrically erasable

U13-C04B2

Earphone V06-V04A4
circuits V06-V02S
lead-throughs V06-V02E
V06-V02F
manufacture V06-V03A
transducer types - see Acoustoelectric transducer V06-V01

Earth drilling X25-E
control T06-D12
X25-E01
telemetry W05-D07H

Earth leakage
circuit breaker, moulded case X13-D05
measurement S01-G04A5
protection circuit X13-C01B

Earthquake prediction S03-C05

E-book T01-N01D5
software T01-J30E
hardware T01-M06A1C

ECG S05-D01A1

Echo reduction
line systems, echo canceller W02-C01C1B
line systems, filter-based W02-C01C1A
radio systems W02-C03E2
telephone systems, general W01-C08E

ECL RAMs - see RAMs, static, with bipolar transitors U14-A03A1

ECM X24-F01A

E-commerce T01-N01A2
advertising T01-N01A2C
auction T01-N01A2A
e-procurement T01-N01A2B
financial brokerage T01-N01A2F
marketing T01-N01A2C
mobile commerce W01-C05B6
online shop T01-N01A2A
shipping support T01-N01A2E
value chain service provider T01-N01AE

Eddy current flaw detection S03-E11A

Edge correction/crispening, video signal

W04-P01E3

Edge recognition, pattern recognition

T04-D03B

EDGE telephone
subscriber set W01-C01D3
W01-C01G6G
system aspects W01-B05A1A
W01-C05B3J
W02-C03C1A

Edge-defined film fed growth, semiconductor U11-B04

Edge-lighting for displays X26-U04A2

EDID (TV / video display) W03-A08S1

Editing, recording
audio/video W04-H05E
audio/video, automatic W04-H05E5
audio/video, user-controlled W04-H05E1

general T03-K01
software editor T01-J30F

EDM X24-F01B

Educational equipment W04-W
computer aided instruction, (CAI) T01-J30A
T01-N01B3
computer equipment T01-J30A
T01-N01B3
computerised marking T01-J30A
T01-N01B3A
demonstration W04-W07C
demonstration of electrical circuits and equipment S01-H09
medical procedures S05-P
question and answer appts. W04-W01
training simulator W04-W07A
tuition support systems T01-J30A
T01-N01B3

EEG S05-D01A1

EEPROM - see ROM, electrically erasable

Effects, special (audio/musical) W04-U03E

Efficiency, mechanical, measuring S02-F02

EHT power supply for TV CRT W03-A07C
W03-A08A1C

EKG S05-D01A1

Elasticity measurement of structures S02-J10

ELCB X13-D05

Electret - see Variable capacitor, non-mechanical V01-B02B

Electrets V01-B02B5

Electric bar heater X27-E01A2
X25-B01D

Electric bicycle X21-A01C

Electric blanket X27-E02
X25-B01C3A

Electric cooker X27-C02
X25-B01C1B

Electric current application, medical S05-A04

Electric depilator X27-A02A3B

Electric discharge heating X25-B03
arc X25-B03B
electrode X25-B03A
glow X25-B03B
power supply X25-B03X

Electric energy
storage X12-H06
X16-L
storage to balance power network load X12-H01A7
X16-L
storage, flywheel X12-H06
X16-L
storage, heater X16-L01
X27-E01A4
storage, superconducting coil X12-C05
X12-H06
X16-L

Electric fan X25-L04
air conditioning X25-L04
X27-E01B1

Electric fan heater X27-E01A2

Electric fence, general X25-X

Electric field
for medical therapy S05-A03B
heating X25-B02X

Electric filter
active U25-E01
all-pass U25-E05Q
bandpass U25-E05B
biquadratic U25-E01A
characterised by function U25-E05
comb (analogue) U25-A03
comb (digital) - see Digital filter U22-G01B4
digital - see Digital filter U22-G01
electromechanical networks U25-B
electromechanical resonator V06-V01E
V06-V04D1
group/equalisation delay U25-E05Q
highpass U25-E05C
LC resonant circuit, single U25-E05B1
lowpass U25-E05A
N-path U25-A01
notch U25-E05D
passive U25-E02
SAW type U14-G
V06-V01E1
V06-V04D1
structurally associated components (with) U25-E02A
variable passband U25-E05H
waveguide - see Waveguide filter (electric) W02-A05

Electric forklift truck X21-A01B
X25-F05A

Electric fryer X27-C03A

Electric generator - see Electric machine

Electric golf cart P36-A01
P36-A08C
W04-X01F
W04-X01K1L
X21-A01E

Electric griddle X27-C03C

Electric grill X27-C03B

Electric hair clipper X27-A02A3B

Electric heating
arc discharge - see Electric discharge heating X25-B03B
dielectric X25-B02X
discharge - see Electric discharge heating X25-B03B
electron beam X25-B02X
glow discharge - see Electric discharge heating X25-B03B
microwave - see Microwave heating X25-B02X
resistance - see Electric resistance heating X25-B01

Electric hob X27-C02
X25-B01C1B

Electric hotplate X27-C02
X25-B01C1B

Electric insulator - see Insulator

Electric iron X27-D03

Electric machine

AC asynchronous (induction) V06-M02B X11-E
AC brushless (general) V06-M03 X11-H01
AC brushless, permanent magnet V06-M03A X11-H01A
AC brushless, sensorless V06-M03C X11-H01C
AC brushless, switched reluctance V06-M03B X11-H01B
AC commutator type V06-M02B X11-H09
AC synchronous, hybrid V06-M01C X11-D05
AC synchronous, with permanent magnet V06-M01A X11-G
AC synchronous, without permanent magnet V06-M01B X11-D
acyclic X11-H09
amplidynes X11-H09
asynchronous (induction) V06-M02B X11-E
brakes, dynamo-electric V06-M06 X11-H03A
brushless AC (general) V06-M03 X11-H01
brushless AC, permanent magnet V06-M03A X11-H01A
brushless AC, sensorless V06-M03C X11-H01C
brushless AC, switched reluctance V06-M03B X11-H01B
brushless DC (general) V06-M03 X11-H01
brushless DC, permanent magnet V06-M03A X11-H01A
brushless DC, sensorless V06-M03C X11-H01C
brushless DC, switched reluctance V06-M03B X11-H01B
clutches, dynamo-electric V06-M06 X11-H03A
clutches, electrostatic V06-M06F X11-H04
constructional details - see Electric machine, details V06-M X11-J
control - see Electric machine, regulation/control X13-H
converters, dynamo-electric X11-H09
core magnetic material V02-A02A2
corona motors V06-M06J
DC brushless (general) V06-M03 X11-H01
DC brushless, permanent magnet V06-M03A X11-H01A
DC brushless, sensorless V06-M03C X11-H01C
DC brushless, switched reluctance V06-M03B X11-H01B
DC interrupter V06-M06 X11-H09
DC with electronic commutator V06-M03 X11-H01
DC with mechanical commutator V06-M02A X11-F
electro-active polymer V06-M06S
electrostatic V06-M06F X11-H04
electrothermal-effect, micromotor V06-M06G3
electrostrictive V06-M06D
external rotor type V06-M06T
gears, dynamo-electric V06-M06 X11-H03A
holding devices, electrostatic V06-M06F X11-H04
hybrid, AC synchronous V06-M01C X11-D05
induction generator V06-M02B X11-E05
induction, (asynchronous) V06-M02B X11-E
interior permanent magnet V06-M01A1 X11-G01
linear (general) V06-M06B X11-H02
linear, asynchronous V06-M06B1 X11-H02A
linear, direct current V06-M06B3 X11-H02C
linear, electrostatic V06-M06B8
linear, electrostrictive V06-M06B7
linear, magnetostrictive V06-M06B9
linear, piezoelectric V06-M06B7
linear, synchronous V06-M06B2 X11-H02B
magnetic-fluid V06-M06K
magnetostrictive V06-M06H
magnetostrictive, generator V06-M06H2
magnetostrictive, motor V06-M06H1
maintenance - see Electric machine, manufacture/testing/maintenance V06-M11M X11-J08M
manufacture - see Electric machine, manufacture/testing/maintenance V06-M11 X11-J08
material (soft, non-metallic) for core V02-A02B2
metadynes X11-H09
MHD generators X11-H03B1 V06-M06Q
microactuators V06-M06G
microactuators, electrostatic V06-M06G1
microactuators, electrostatic, comb V06-M06G1A
microactuators, electrostatic, wobble V06-M06G1B
microactuators, electro-thermal effect V06-M06G3
microactuators, magnetic excitation V06-M06G2
micromotors V06-M06G
micromotors, electrostatic excitation V06-M06G1
micromotors, electro-thermal effect V06-M06G3
micromotors, magnetic excitation V06-M06G2
motor-generator X11-H20
motor-generator sets V06-M06 X11-H09
multi-rotor/stator type V06-M06 X11-H09
multidimensional motors V06-M06P
nanomotors V06-M06G9
nanoactuators V06-M06G9

non-electrodynamic type
details V06-M16
oscillating armature type V06-M04
oscillating coil type V06-M04A
oscillating magnet type V06-M04
oscillating wave motors, piezoelectric V06-M06D1
pancake motors V06-M06N
perpetual motion (electric/magnetic) type V06-M06
piezoelectric actuators V06-M06D
piezoelectric generators V06-M06D2
piezoelectric motors V06-M06D
polarised armature type V06-M04
printed circuit type motors V06-M06N
pumps, electrodynamic conduction X11-H03B
pumps, electrodynamic induction X11-H03B
reciprocating armature type V06-M04
reciprocating coil type V06-M04A
reciprocating magnet type V06-M04
regulation - see Electric machine, regulation/control X13-H01
rolling motors V06-M06B
X11-H02
Schrage motors X11-H09
sectional motors V06-M06
X11-H02
selsyns V06-M06A
servomotors V06-M06E
shape memory alloy actuators V06-M06M
shunt motor V06-N02
SMA actuators V06-M06M
solenoidal motors V06-M04
speed control/regulation - see Electric machine, regulation/control V06-N
X13-H
starter-generator X11-H20
stepping motors, hybrid V06-M05C
stepping motors, permanent magnet V06-M05B
stepping motors, variable reluctance V06-M05A
superconducting winding machines X11-H05
switched reluctance type V06-M03B
X11-H01B
synchronous, hybrid V06-M01C
X11-D05
synchronous, with permanent magnet V06-M01A
X11-G
synchronous, without permanent magnet V06-M01B
X11-D
synchros V06-M06A
tachogenerators V06-M06C
testing - see Electric machine, manufacture/testing/maintenance S01-G07
V06-M11M
X11-J08M
thermal-effect type V06-M06
X11-H04
thermomagnetic V06-M06
torque motors V06-M06
X11-H09
travelling wave motors V06-M06D1
ultrasonic, electrostrictive V06-M06D1
ultrasonic, non-piezoelectric V06-M06R
ultrasonic, piezoelectric V06-M06D1
universal motors V06-M02
vehicle alternator X22-F02
vehicle starter motor X22-A04
vibrating armature V06-M04
vibrating coil type V06-M04A
vibrating magnet type V06-M04
vibration wave motors, piezoelectric V06-M06D1
voice-coil motors V06-M04A

Electric machine, applications

aerospace X11-U04
X13-U03
audio equipment V06-U09
aviation X11-U04
X13-U03
boat W06-C01C7
X11-U05
X13-U04
camera, digital V06-U09
camera, film-based V06-U13
camera, video V06-U09
chronograph timepiece V06-U12
cooling V06-U04D
disk drive V06-U04A
dispensing machine V06-U07
domestic appliance V06-U01
electric power generation X11-U01
electronic equipment manufacture V06-U11
exercise machine V06-U08
facsimile machine V06-U04C
game machine V06-U08
gas turbine generator X11-U01C
graph plotter V06-U04B
hydrogenerator X11-U01B
IC engine generator X11-U01D
industrial machine/component V06-U15
X11-U07
X13-U06
information equipment V06-U04
instrumentation V06-U12
machine tool V06-U06
medical device V06-U10
microturbine generator X11-U01M
mobile telephone V06-U04E
military X11-U06
X13-U05
optical switch V06-U14
paper shredder (office) V06-U01
personal article V06-U02
plotter, graph V06-U04B
printer V06-U04B
railway X11-U03
X13-U02
X23-A01A1
robotics V06-U05
semiconductor manufacturing equipment V06-U11
ship W06-C01C7
X11-U05
X13-U04
sports V06-U08
switch, optical V06-U14
tape drive V06-U04A
telecommunication V06-U04E
toy V06-U08
steam turbine generator X11-U01A
vehicle (road) drive X11-U02
X13-U01
X21-A07

vehicle accessory V06-U03
vending machine V06-U07
ventilation, information equipment V04-T03B
V06-U04D
video equipment V06-U09
wind turbine generator X11-U01E

Electric machine, details
auxiliary machines V06-M10
X11-J05B
balancing arrangements V06-M10
X11-J05X
bearing supports V06-M09
X11-J07A
bearing-shield mountings V06-M09
X11-J07A
bearings V06-M10
X11-J05X
bearing supports/shields/end plates V06-M09
bearing lubrication V06-M09
brakes, mechanical V06-M10
X11-J05A
brush holders/supports V06-M09
X11-J07A
brushes V06-M12
X11-J03
brushes, protection V06-M09
X11-J07A
brushes, supports V06-M09
X11-J07A
cables V06-M20
casings V06-M09
X11-J07X
centering V06-M11C
clutches V06-M10
X11-J05A
coils, printed V06-M08A1
commutators V06-M12
X11-J03
connectors, casing V06-M09A
X11-J07X1
cooling, ventilation V06-M13
X11-J06
detectors, position/rotation/direction V06-M14
X11-J04
enclosure V06-M09
end-plate mountings V06-M09
X11-J07A
explosion proofing V06-M09
X11-J07X
fins, heat dissipation V06-M09
X11-J07X
flywheels V06-M10
X11-J05X
gears V06-M10
X11-J05A
insulation V06-M11C
X11-J02B
machine-mountings V06-M09
X11-J07X
materials V06-M15
X11-J15
materials, conductive V06-M15A
X11-J15A
materials, insulative V06-M15C
X11-J15C
materials, magnetic V06-M15B
X11-J15B
mechanical drivers V06-M10
X11-J05B
mechanical loads V06-M10
X11-J05B
microgears V06-M10A
microtransmission V06-M10A
noise suppression V06-M09
X11-J07X
non-electrodynamic type motor V06-M16
protection, brushes V06-M09
X11-J07A
protectors V06-M14
X11-J04
pulleys V06-M10
X11-J05A
RFI suppressors V06-M14
X11-J04
ribs, heat dissipation V06-M09
X11-J07X
rotors, magnetic circuit V06-M07B
X11-J01B
seals V06-M09
X11-J07X
shafts V06-M10
X11-J05X
slip-rings V06-M12
X11-J03
starters, mechanical V06-M10
X11-J05A
stators, magnetic circuit V06-M07A
X11-J01A
supports, brushes V06-M09
X11-J07A
switches V06-M14
X11-J04
taping V06-M11C
terminal-boxes, casing V06-M09A
X11-J07X1
ventilation, cooling V06-M13
X11-J06
vibration damping V06-M09
X11-J07X
windings, conductor shape/form/construction/layout V06-M08A
X11-J02A
windings, fastening/wedges/ties V06-M08
X11-J02C
windings, insulation/shielding/protection
V06-M08B
X11-J02B
windings, layout V06-M08A
X11-J02A
windings, printed V06-M08A1

Electric machine, manufacture/testing/maintenance
balancing V06-M11
X11-J08C
bearings V06-M11
X11-J08X
brushes V06-M11A
X11-J08A
casings V06-M11
X11-J08X
centring V06-M11
X11-J08C
commutators V06-M11A
X11-J08A

cooling, ventilation V06-M13
X11-J06
drying V06-M11C
X11-J08C
demonstrating model V06-M20
W04-W07C
design, simulation V06-M20
W04-W07C
end-shields V06-M11
X11-J08X
fault detection and diagnosis V06-M11M
X11-J08X
heating V06-M11C
X11-J08C
impregnating V06-M11C
X11-J08C
insulating V06-M11C
X11-J08C
maintenance V06-M11M
X11-J08M
micromachining V06-M11G
microprocessor based V06-M11P
X11-J08P
monitoring V06-M11M
X11-J08M
recycling V06-M11
X11-J08M
repair V06-M11M
X11-J08M
rotors V06-M11D
X11-J08A
slip-rings V06-M11A
X11-J08A
stators V06-M11D
X11-J08A
supports V06-M11
X11-J08X
testing V06-M11M
X11-J08M
ventilation, cooling V06-M13
X11-J06
windings V06-M11B
X11-J08B

Electric machine, regulation/control

AC motors V06-N03
X13-H01D
amplidynes X13-H01C
asynchronous motors V06-N03A
X13-H01F
brakes, dynamo-electric X13-H04
braking V06-N06
X13-H01B
chopper controllers X13-H01C1
clutches, dynamo-electric X13-H04
corona motors V06-N13
DC brushless (general) V06-N04
X13-H01E
DC brushless, permanent magnet V06-N04A
X13-H01E1
DC brushless, sensorless V06-N04C
X13-H01E3
DC brushless, switched reluctance V06-N04B
X13-H01E2
DC with mechanical commutator V06-N02
X13-H01C
diesel engine generator X13-H02T3
dynamic braking V06-N06
X13-H01B
dynamo-electric converters X13-H04
dynamo-electric converters, braking X13-H01B
dynamo-electric converters, starting X13-H01A
electrostatic V06-N08
electrostrictive V06-N07
field controllers, generators X13-H02A
frequency controllers X13-H01D1A
frequency controllers, generators X13-H02X
gas turbine generator X13-H02T4
generators, DC, low power V06-N40B
generators, electrostatic V06-N40F
generators, field controllers X13-H02A
generators, induction, low power V06-N40C
generators, low power V06-N40
generators, magnetostrictive V06-N40E
generators, MEMS type V06-N40H
generators, MHD, low power V06-N40G
generators, NEMS type V06-N40H1
generators, piezoelectric V06-N40D
generators, prime-mover controllers X13-H02X
generators, synchronous, (LP) V06-N40A
hydrogenerator X13-H02T2
IC engine generator X13-H02T3
integrated circuit controller V06-N24
integrated smart power circuit controller
V06-N24
linear (general) V06-N11
X13-H01H
linear, asynchronous V06-N11A
X13-H01H1
linear, direct current V06-N11C
X13-H01H2
linear, electrostatic V06-N11F
linear, electrostrictive V06-N11D
linear, magnetostrictive V06-N11E
linear, piezoelectric V06-N11D
linear, synchronous V06-N11B
X13-H01H2
magnetic-fluid V06-N14
magnetostrictive V06-N09
metadynes X13-H01C9
microactuators V06-N22
micromotors V06-N22
microprocessor control V06-N26
X13-H05
microturbine generator X13-H02T6
motor-generator X13-H07
multidimensional V06-N20
multimotors V06-N30
X13-H01X
pancake motors V06-N18
piezoelectric V06-N07
prime-mover controllers, generators X13-H02X
printed-circuit type V06-N18
PWM controllers X13-H01C1
regenerative braking V06-N06
X13-H01B
remote motor control V06-N35
X13-H06
resistive braking V06-N06
X13-H01B
reversing V06-N06
X13-H01B
servomotors V06-N10
shape-memory alloy V06-N16
starter-generator X13-H07

smart power IC controllers V06-N24
starting V06-N05
X13-H01A
stepping motors V06-N01
stepping motors, hybrid V06-N01C
stepping motors, permanent magnet V06-N01B
stepping motors, variable reluctance V06-N01A
stopping V06-N06
synchronous motors V06-N03B
X13-H01G
transformers, dynamo-electric X13-H04
steam turbine generator X13-H02T1
ultrasonic V06-N36
universal motors V06-N
X13-H01
vector controllers V06-N37
X13-H01D1C
voice coil motors V06-N12
voltage controllers X13-H01D1B
Ward-Leonard sets X13-H01C9
wind turbine generator X13-H02T5

Electric machine, regulation/control characterized by control device
V06-N45
X13-H10
characterized by AC-to-AC converter V06-N45H
X13-H10H
characterized by AC-to-DC converter V06-N45F
X13-H10F
characterized by DC-to-AC converter V06-N45G
X13-H10G
characterized by DC-to-DC converter V06-N45J
X13-H10J
characterized by diodes V06-N45A
X13-H10A
characterized by BTs V06-N45B
X13-H10A
characterized by combination of switching devices V06-N45E
X13-H10E
characterized by FETs V06-N45C
X13-H10C
characterized by IGBTs V06-N45D
X13-H10B
characterized by thyristors X13-H10D

Electric motor - see Electric machine

Electric oil-filled radiator X27-E01A2

Electric oven X27-C02

Electric power distribution/transmission system X12-H
Active power compensation X12-H01A2
aircraft W06-B01C3
X12-H01B4
bulk power interconnection X12-H01B2
bulk power transfer X12-H01B2
circuit arrangement X12-H01
communications W01
W02
X12-H03E
communications, economics-considerations
X12-H03E1A
communications, (E)HV lines X12-H03E1
communications, LV mains line X12-H03E3
communications via Internet/Intranet
X12-H03E7
communications via radio network X12-H03E5
connecting different-frequency networks
X12-H01B3
connecting same-frequency, different-source networks X12-H01B
controlling converters' output share X12-H01B
X12-J01A
X13-H03
controlling generators' output share X12-H01B
X13-H02
controlling transformers' output share
X12-H01B
X13-H04
DC X12-H01D
distributed generators X12-H01B1
economics-based comms X12-H03E1A
economics-based control X12-H03A1
economics-based power exchange X12-H07
electromagnetic interference reduction X12-H01A4
electromagnetic waves X12-H01X
eliminating/reducing asymmetry X12-H01A6
energy storage X12-H06
X16-L
harmonics/ripple reduction X12-H01A4
HVDC X12-H01D
interconnections X12-H01B
load balancing by energy storage X12-H01A7
X16-L
load balancing by energy storage in battery X12-H01A7
X16-G02
load balancing by energy storage in flywheel X12-H01A7
X16-L
load sharing control between connected networks X12-H01B
measurements S01-D
X12-H04
measurements, current S01-D01
X12-H04
measurements, energy transfer S01-B
X12-H04
measurements, fault data recording S01-D
S01-G
X12-H04
measurements, inter-tie energy transfer
S01-B
X12-H04
measurements, power S01-D02
X12-H04
measurements, transients S01-D
X12-H04
measurements, voltage S01-D01
X12-H04
monitoring X12-H03A
multi-source network X12-H01B
noise filter U25-E
W02-H
X12-H01A4
non-contact power distribution X12-H01E
trading across networks owned by different operators X12-H07
power transfer control X12-H01B
reactive power compensation X12-H01A2
reducing/preventing power oscillations
X12-H01A5
remote control/monitoring X12-H03A

remote control/monitoring based on economic considerations X12-H03A1
remote load switching X12-H03A
remote load switching using mains-based signals X12-H03A
remote metering S01-B01
X12-H04A
remote metering applications S01-B01
X12-H04U
remote metering applications, network control S01-B01
X12-H03A
X12-H04U2
remote metering applications, protection S01-B01
X12-H04U1
X13-C04A
remote metering, Internet/Intranet-based T01
S01-B01
X12-H04B
ship W06-B01C3
X12-H01B4
short circuit current limiter X12-H01A3
X13-C03B
X13-C04A
simulator W04-W07
X12-H05
stability control X12-H01A5
static compensation X12-H01A2D
static VAR compensation X12-H01A2D
SVC X12-H01A2D
switching control for equipment connected to mains supply X12-H03A3
synchronising generator to network X12-H01B2A
synchronising generators X12-H01B
synchronising networks X12-H01B
training simulator W04-W07A
X12-H05
VAR compensation/control X12-H01A2
VAR compensation/control, distribution side X12-H01A2A
VAR compensation/control, load side X12-H01A2B
VAR compensation/control, transmission side X12-H01A2A
VAR compensation/control, using thyristor-controlled reactor X12-H01A2D
VAR compensation/control, using thyristor-switched capacitor X12-H01A2D
VAR compensation/control, using TCR X12-H01A2D
VAR compensation/control, using TCS X12-H01A2D
voltage control X12-H01A1
voltage control by load shedding X12-H01A1A
voltage control by reactive power regulation X12-H01A1C
X12-H05

Electric power network training simulator
W04-W07A
X12-H05

Electric power plant
biomass X15-E
chip-scale V06-P01
cogeneration X11-C04
combined cycle X11-C03
diesel engine X11-C02
gas turbine X11-C01
geothermal X15-X
hydroelectric X11-B
IC engine X11-C02
MEMS-scale V06-P01
micro hydroelectric X11-B05
mini hydroelectric X11-B05
nuclear X14-C
pumped storage X11-B06
rankine cycle plant X11-C05
sea X15-C05A
small-scale V06-P02
small-scale (solar) X15-A04
solar X15-A
steam turbine (coal-fired) X11-A
thermoelectric X15-D
tidal X15-C02
wind X15-B
wind, off-shore X15-B03
wind, on-shore X15-B02
wind, small-scale X15-B04

Electric propulsion
aircraft W06-B01C6
bicycle X21-A01C
bus X21-A01H
car X21-A01F
electric motorcycle X21-A01G
forklift truck X21-A01B
X25-F05A
golf cart W04-X01F
W04-X01K1L
X21-A01E
hybrid vehicle X21-A01D
X22-P04
lorry/truck X21-A01H
mobility vehicle X21-A01A
S05-K01
motor vehicle X21-A01F
scooter X21-A01G
ship W06-C01C7
train X23-A01A1
train/tram X23-A01A
trolley bus X21-A01H
wheelchair S05-G02A
X21-A01A

Electric pulse duration measurement S04-C03C1

Electric railway
accessories X23-A13
air conditioning X23-A10
for station X23-S99
ATC X23-A02C
ATC, signalling X23-B02
ATP X23-A01B5
ATP, signalling X23-B02
ATS X23-A01B5
ATS, signalling X23-B02
automatic train control X23-A02C
automatic train protection X23-A01B5
automatic train stopping X23-A01B5
axle counter X23-B01A
baggage security X23-S01E
brake X23-A01B
brake, automatic X23-A01B5
brake, eddy current X23-A01B3
brake, electrodynamic X23-A01B3
brake, electromechanical X23-A01B1
brake, regenerative X13-H01B
X23-A01B3
cargo (un)loading X23-A16

carriage cable connector X23-A09
classification yard X23-B05
current collector/pick-up X23-A04
data bus X23-A02E
dead man's handle X23-A02C
environmental control X23-A10
heating control X23-A10
integrated and central traffic control X23-B05C
lighting control X23-A10
lubrication X23-A01L
magnetic levitation X23-A01A4
marshalling system X23-B05
measuring system X23-A05
monitoring system X23-A02G
monitoring system, data bus X23-A02E
motor X23-A01A1
motor control X13-H01
X23-A02A
noise, vibration, harshness reduction Q21-N
X23-N
motor control X13-H01
off-board systems X23-S
on-board power supply X23-A03C
operating points X23-B03
pantograph X23-A04
passenger information system X23-C
passenger information system, on-board train X23-C01
passenger information system, platform-based X23-C02
personnel security/safety X23-S01A
platform door control X23-S03
points X23-B03
points/signals interlocking X23-B04A
points/signals interlocking, solid-state X23-B04A1
power converter X12-J
X23-A01A3
power line X23-A03A
power rail X23-A03A
power supply system X23-A03
propulsion X23-A01A
propulsion, diesel engine X23-A01A2
exhaust gas cleaning X23-A01A2C
propulsion, electric motor X23-A01A1
pollution reduction X23-A01A2C
protection, motor X13-C04C
X23-A02
radio communication link X23-B02C
radio communication link for speech X23-B02C1
rail/road crossing system X23-B05A
safety X23-B
for station X23-S03
security systems X23-S01
for baggage X23-S01A
for personnel X23-S01E
shunting devices X23-A08
signalling - see also Signalling X23-B
signalling lamp X23-B03
signalling to portable warning unit X23-B04E1
signals X23-B03
station blocking X23-B04C
station safety X23-S03
substation X13-E03
X23-A03
supply protection X13-C04
X23-A03
suspension systems X23-A01C
testing system X23-A05
track circuit X23-B01C
track laying equipment X23-X
track-side to train/tram-mounted device signalling X23-B02
traction increasing equipment Q21-D10A
X23-A17
traffic control X23-B05
train detector X23-B01
train-end passage detection X23-B01A
transformer X23-A01A5
transponder X23-B02A
tunnel, electric details X23-S05
warning device along route X23-B04E

Electric razor X27-A02A3B

Electric resistance heating X25-B01
cable element X25-B01D
electrode X25-B01A
element X25-B01B
element, arrangement X25-B01B
element, material X25-B01B
flexible element for electric blanket X25-B01C3A
X27-E02
flexible element for electric carpet X25-B01C3B
X27-E01A3
flexible element for pad X25-B01C3C
flexible element for personal pad X25-B01C3C
X27-A02
X27-E02
flexible element for plate X25-B01C3
flexible element for seat X25-B01C3C
X27-A03
X27-E02
flexible element for underfloor use X25-B01C3B
X27-E01A3
flexible element for vehicle seat X22-J02C
X22-J03A
X25-B01C3C
flexible element for wall X25-B01C3B
X27-E01A3
fluid current path X25-B01E2
furnace element X25-B01E1
X25-C01
granular current path X25-B01E
immersion, domestic water X25-B01E2
X27-E03A
immersion, water X25-B01E2
infrared lamp X25-B01H
X26-B
infrared lamp, cooking X25-B01H1
X26-B01B
X27-C02A
infrared lamp, industrial application X25-B01H3
X26-B01B
non-flexible element for hotplate X25-B01C1B
X27-C02
non-flexible element for panel X25-B01C1A
non-flexible element for windscreen demister X22-J02A
X25-B01C1C
plate X25-B01C
positive temperature coefficient X25-B01F
protective arrangements X25-B01
PTC X25-B01F
rod X25-B01D
tube X25-B01D

water X25-B01E2
Electric screening V04-U
Electric shaver X27-A02A3B
Electric shielding V04-U
Electric soldering - see Soldering X24-A
Electric toothbrush X27-A02A3A
Electric train (see Electric railway)
Electric vehicle Q19-P
X21-A01F
accessories X21-C
accessories, air conditioner X21-C02
accessories, heating X21-C01
assembly X21-X20
autonomous/driverless X21-A01L
battery X21-B01A
battery arrangement X21-B01
battery charging X16-G
X21-B01A1
battery exchange/leasing X21-B01E
bicycle X21-A01C
brake X21-A03
braking system, eddy current X21-A03C
braking system, electrodynamic X21-A03C
braking system, electromechanical X21-A03A
braking system, mechanical Q18-A
X21-A03A
braking system, regenerative X21-A03C
braking system, resistive X21-A03C
connector X21-D
current collector X21-B03
design X21-X20
electric bus X21-A01H
electric lorry X21-A01H
electric motorcycle X21-A01G
forklift truck X21-A01B
fuel cell X21-B01A
gearing X21-A02
golf cart W04-X01F
W04-X01K1L
X21-A01E
hybrid Q19-Q
X21-A01D
X22-P04
instrumentation X21-A05E
inverter control X12-J05
X13-H03A
X21-A04C
lights X21-F
maintenance X21-X6
manufacture X21-X20
measurements X21-A06
monitoring X21-A05E
motor vehicle X21-A01F
noise/vibration/harshness reduction X21-N
off-board battery charging X16-G01
X21-B01A1C
on-board battery charging X16-G02
X21-B01A1A
on-board IC engine-driven generator X21-B04C
other accessories X21-C20
parallel hybrid Q19-Q01
X21-A01D1
X22-P04A
power converter X12-J
X21-B05
power feed X21-B02
power supply X21-B
power supply line X21-B02
protection X21-A05
rectifier control X12-J04
X13-H03B
X21-A04A
rental, hiring, sharing of battery X21-U
X21-B01E
safety X21-A05A
series hybrid Q19-Q01
X21-A01D3
servicing/testing X21-X16
solar cell array X15-A02
X21-B04A
suspension X21-M
switch X21-E
testing X21-X16
traction motor X21-A07
traction motor control X21-A04
transmission system/ control X21-A02A
trolley bus X21-A01H
wheelchair S05-G02A
X21-A01A
wind turbine X21-B04A
X15-B01A
Electric wheelchair S05-G02A
X21-A01A
Electrical
clock or watch S04-B
diagnosis, medical S05-D
medical measurement, using current S05-D01D
medical therapy using electric fields S05-A03B
surgery S05-B03
therapy, medical S05-A04
Electrical discharge machining X24-F01B
Electrical energy storage
non-chemical X16-L
using double-layer capacitor V01-B01D
X16-L02
Electrical equipment
battery holder compartment X16-F06
Electrical equipment, computers for T01-J08
Electrical instrument S01-H
calibrating S01-H01
compensation S01-H01A
educational equipment (see also under educational) S01-H09
electrical instrument details S01-H
for HF measurements S01-H05
for high voltage/current networks S01-H02
interfacing S01-H07A
multimeters (see also under multimeters) S01-H04
multiple-probe arrangement S01-H03A
noise compensation S01-H01A
noise reduction S01-H01A1
probes/contacts S01-H03
processor controlled S01-H07
remote control S01-H07A
single probe S01-H03B
temperature variation compensation S01-H01A
testing S01-H01

Electrical military equipment (general)
W07-J
constructional details W07-J05
electrical installations, cables, connectors W07-J01
power generation / distribution W07-J03
Electrical safety alarm W05-B07N
Electrical storage heater X16-L01
X27-E01A4
Electrical winding (clock or watch) S04-B01A
Electrically programmable ROM U13-C04A1
Electrically-heated carpet X25-B01C3B
X21-A01D3
X27-E01A3
control X25-B04
X27-E01A3
Electricity dispensing and metering T05-H06
Electricity generation
biomass combustion-type X15-E
coal-fired X11-A
cogeneration plant X11-C04
combined cycle plant X11-C03
diesel engine plant X11-C02
gas turbine plant X11-C01
geothermal energy X15-G01
hydroelectric plant X11-B
IC engine plant X11-C02
micro hydroelectric plant X11-B05
microturbine plant X11-C15
mini hydroelectric plant X11-B05
nuclear energy X14-C05A
ocean thermal energy currents X15-C
OTEC X15-C
piezoelectric device on road acted on by traffic X15-X
potential of falling bodies-energy X15-X
pumped storage plant X11-B06
sea energy X15-C
solar energy X15-A
solar energy, large scale X15-A05
solar energy, small scale X15-A04
steam turbine (coal-fired) plant X11-A
thermoelectric/voltaic element U14-E05
X15-D
thermophotovoltaic cell U12-A02
X15-A02E
tidal energy X15-C02
traffic flow, power generation from X15-T
waste fuel combustion-type X15-E
wave energy X15-C01
wind energy X15-B
wind energy, off-shore X15-B03
wind energy, on-shore X15-B02
Electricity meter - see Meter
Electro-erosion machining X24-F
appts./device X24-F01
arc discharge X24-F01B
electric circuits X24-F01
electrode X24-F02
electrode spacing control X24-F02
electrolytic medium X24-F01A
spark discharge X24-F01B
Electro-optical
clock/watch display S04-B04A
data processing T01-E05A
effect for light modulation V07-K01A
passive displays U14-K
Electroacoustic transducer - see Acoustoelectric transducer
Electroadhesion relay V03-D05C
Electrocardiograph S05-D01A1
electrodes S05-D01A1A
foetal monitoring electrodes S05-D01A1A
S05-D09
Electrochemical machining X24-F01A
Electrochemical measurement S03-E03
CHEMFET S03-E03C
concentration cells S03-E03B2
containers S03-E03C
coulometric titration S03-E03A
electrodes S03-E03C
electrophoresis S03-E03E
isoelectronic focussing S03-E03E
measuring currents/voltages S03-E03B
membranes S03-E03C
partitions S03-E03C
pH sensor S03-E03B2
potentiometric titration S03-E03B1
Electrochemical storage X16-A
X16-B
Electrochromic display U14-K02
circuits, drivers U14-K02B
constructional details U14-K02A1
manufacture U14-K02A2
materials U11-A03C
Electrochromic effect
for current/voltage measurement S01-D01D5
Electrode
active material manufacture X16-E01G
active polymer material, battery X16-E01A1
alkaline accumulator X16-E05
alkaline primary cell X16-E03
anode material, composition V05-E01A1
anode shape, construction V05-E01A3
arc discharge heating X25-B03A
assemblies for valves V05-M03
battery X16-E
battery material, organic compounds X16-E01A
capacitor V01-B03D1
carrier, battery X16-E02
cathodes V05-D05C
collector, battery X16-E02
complex oxide materials, battery X16-E01C1
conductive layer formation, for semiconductor mfr. U11-C05C
conductive material, battery X16-E01E
depolariser, battery X16-E07
details V01-B02A1
V05-D05X
discharge heating X25-B03A
X25-B03A
EEG S05-D01A2A
electrocardiograph S05-D01A1A
electrochemical measurements S03-E03C
electrodes, foil V01-B03D1C
electrolysis cell X25-R01B
electrolysis, non-metal production X25-R01B
electrolytic capacitor V01-B01A

electron beam tubes V05-D05
EMG S05-D01A2A
fixed capacitor V01-B03D1
foil, electrolytic capacitor V01-B01A5
for discrete devices U12-E02
for pacemaker, defibrillator S05-A02A
for semiconductor devices, metallurgical aspects U11-D03B2
for solar cells U12-A02A4A
formation, non-silicon substrate, semiconductor mfr. U11-C05F3
formation, semiconductor mfr. U11-C05E
fuel cell X16-E06A
glow discharge heating X25-B03A
grid, battery X16-E02
grids for discharge tubes, mfr. V05-L01B1
hybrid cell X16-E06C
inorganic compounds, battery X16-E01C
lead-acid accumulator X16-E04
lithium-based primary cell X16-E03A1
lithium-based secondary cell X16-E08A
manufacture, discharge lamp X26-A03C
manufacture, for capacitors, film treatment, sintering V01-B01G1
material composition, anode V05-E01A1
material structure, battery X16-E01H
medical therapy S05-A02
metal-air hybrid cell X16-E06C1
metal-halogen hybrid cell X16-E06C2
metal-hydrogen cell X16-E05C
metallic electrode testing S03-E14C1
metallic, testing S03-E14C1
nerve and muscle stimulation S05-A02B
nickel-cadmium cell X16-E05A
non-aqueous electrolyte cell X16-E08
non-emitting, mfr. V05-L01B9
oxide materials, battery X16-E01C1
photoelectrochemical cell X16-E09
plate, battery X16-E02
primary cell X16-E03
printer for computer S06-J
resistance heating X25-B01A
Schottky ohmic electrode mfr., semiconductor mfr. U11-C05E1
secondary emission, mfr. V05-L01A5
self alignment, semiconductor mfr. U11-C05E3
sintered, electrolytic capacitor V01-B01A1
sodium-sulphur cell X16-E10
submicron, formation, semiconductor mfr. U11-C05E2
support, battery X16-E02
supports for discharge tubes, mfr. V05-L03A3
T-shaped gate, formation, semiconductor mfr. U11-C05E2
U11-C05F1
U11-C05F3
transit-time tubes V05-C02A

Electrodeless lamp X26-A01B
construction - see Discharge lamp X26-A02
control X26-C01B3
electronic ballast X26-C01B2
X26-C01B3
hf coil X26-A02E
inductive ballast X26-C01B1
X26-C01B3
inductor X26-A02E
operating circuit X26-C01B3
starter X26-C01B3
toroidal coil X26-A02E

Electrodynamic
brake, electric vehicle X21-A03C
brake, train/tram X23-A01B3
conversion of sensor output S02-K03A1A
relays V03-D05E
transducers S02-K03A1A

Electroforming X25-R03

Electrography S06-E08
exposure S06-D09

Electrohydraulics X25-L09
electrorheological actuator X25-L09
electrorheological fluid X25-L09

Electrokinetic cells S02-F04B2

Electroluminescence, materials investigation S03-E04D
electroluminescent materials U11-A15
inorganic U11-A15A
organic/polymeric U11-A15B

Electroluminescent device
circuit, drivers U14-J03
display, control (general) T04-H03C3
display, manufacture U14-J01A
display, TV receiver W03-A08J
electrode details U14-J02A
layer deposition U14-J01
lighting X26-J
manufacture U14-J01
manufacturing apparatus U14-J01B
materials U11-A15
module details, sealing U14-J02B
multicolor aspects U14-J02Q
optical components U14-J02C
structure U14-J02
structure, with inorganic material U14-J02D1
structure, with organic material U14-J02D2
switching elements U14-J02E
testing U14-J04
thin film device U14-H01A
U14-J02

Electroluminescent display - see Electroluminescent device

Electrolysis X25-R
cell X25-R01A
cleaning X25-R06
cold fusion X14-A03A
control X25-R01D
electrode X25-R01B
etching X25-R06
membrane X25-R01C
metal refining X25-R02
non-metal production X25-R01
polishing X25-R06
separator X25-R01C

Electrolyte
aqueous, battery X16-J07
battery X16-J
circulation, battery X16-F04
electrochemical storage battery X16-J
for capacitor - see Electrolytic capacitor V01-B01B
fused salt, battery X16-J03
gel, battery X16-J01G

holder, battery X16-J09
inorganic solid, battery X16-J01C
liquid, battery X16-J02
matrix, battery X16-J09
molten salt, battery X16-J03
nanomaterial, battery X16-J01E
non-aqueous, battery X16-J08
organic solid, battery X16-J01A
solid, battery X16-J01

Electrolytic
capacitor - see Electrolytic capacitor V01-B01
device other than capacitor V01-B01C
transducers V01-B01C

Electrolytic capacitor V01-B01
casing V01-B01B7
double layer capacitor V01-B01D X16-L02
electrode foil composition V01-B01A5A
electrode foil production V01-B01A5A
excess pressure venting plug V01-B01B7A
foil electrode V01-B01A5
housing V01-B01B7
leadless V01-B01E
liquid dielectric V01-B01B5
manufacture - see Electrolytic capacitor mfr. V01-B01G
mounting kit V01-B01B7C
paper tape to secure winding V01-B01B7
paste dielectric V01-B01B5
protection by integral fuse V01-B01F1
protection by mechanical disconnection V01-B01F5
protection by pressure venting V01-B01B7A
seal V01-B01B7
separator V01-B01B3
sintered electrode V01-B01A1
solid dielectric V01-B01B1
super-capacitor V01-B01D5 X12-B
surface mounting V01-B01E
tape to secure winding V01-B01B7
terminals V01-B01A7
ultracapacitor V01-B01D5 X12-B
wound capacitor securing tape V01-B01B7

Electrolytic capacitor mfr. V01-B01G
ageing V01-B01G7A
assembly V01-B01G5
attaching leads V01-B01G5C
characterised by type V01-B01G8
chip capacitor V01-B01G8E
double layer capacitor V01-B01G8D
encapsulation V01-B01G5A
forming V01-B01G7A
impregnation V01-B01G3
laminating V01-B01G3
lead manufacture V01-B01G5
leadless capacitor V01-B01G8E
liquid/paste dielectric capacitor V01-B01G8B
multistep process V01-B01G6A
solid dielectric capacitor V01-B01G8A
surface mounting capacitor V01-B01G8E
testing S01-G12C V01-B01G7C
winding V01-B01G3

Electromagnet
armature, linear actuator V02-E02A3
armature, rotary actuator V02-E02A4
armature, relay V02-E02A2 V03-D03A
armature-less V02-E02X
armature-less using superconducting coil V02-E02X1
armature-type V02-E02A

armature-type for dot matrix printer S06-F01 V02-E02A2
armature-type for impact printer S06-F02 V02-E02A2
armature-type for valve V02-E02A2 X25-L01A
high power X12-C06
high power, superconducting coil X12-C05A
IC engine fuel injector V02-E02A1 X22-A02A
low power V02-E02
low power, superconducting coil V02-E02X1
low power, with armature V02-E02A
low power, without armature V02-E02X
relay V02-E02A2 V03-D03A
valve V02-E02A1 X25-L01A
vehicle fuel injector V02-E02A1 X22-A02A1
winding manufacture V02-H01C
winding manufacture, EM relay V02-H01C1 V03-D06B
winding manufacture, EM valve V02-H01C2 X25-L01A
winding manufacture, printer V02-H01C3 S06-F

Electromagnetic
antenna radiation pattern S01-D07B1
field measurement S01-D07B
field measurement, using optical techniques S01-D07B3
heating X25-B02
interference suppression W02-H
medical therapy S05-A03E2
prospecting S03-C02
pump – low power V06-M06K
pump – high power X11-H03B
relays V03-D04
screening V04-U
shielding V04-U
valve X25-L01A
valve, IC engine fuel injection X22-A02A

Electromagnetic compatibility (EMC) testing S01-G08C

Electromechanical networks U25-B

Electromigration prevention, for interconnections, semiconductor devices U11-D03B2

Electron
using, for analysis S03-E06
multiplier V05-K01

Electron beam
deflection arrangements for CRT V05-D06B
focusing components of CRT V05-D06A3

intensity control element in CRT V05-D06A2
lithography appts., semiconductor U11-C04F1
treatment, semiconductor U11-C03B
tube for analysing V05-F01
tube for processing V05-F05A7A
welding/cutting V05-F05A7A
V05-F08E3
X24-D01

Electron beam cutting - see Welding, electron beam X24-D02
masks U11-C04F2
method, apparatus U11-C04F1

Electron beam lithography, for semiconductor mfr. U11-C04F
apparatus U11-C04F1
masks U11-C04F2

Electron beam tube
analysing - see Analysing tube V05-F01
cathode ray - see CRT V05-D
processing - see Processing tube V05-F05A7A
thermionic - see Thermionic tube V05-B01
vacuum - see Vacuum tube V05-B
workpiece treatment V05-F05A7A

Electron beam welding - see Welding, electron beam X24-D02

Electron cyclotron resonance CVD U11-C01B

Electron diffraction tube V05-F01A1

Electron gun
CRT V05-D06A
general V05-M03G
manufacture - see Discharge tube mfr. V05-L01B4
transit time tube V05-C02A5
X-ray tube V05-E01D1

Electron microscope S03-E06B1
V05-F01A1

Electron microscopes
combined transmission and scanning V05-F01A1C
scanning V05-F01A1B
transmission V05-F01A1A

Electron multiplier
CRT electron gun component V05-D06E
dynodes V05-K01C
manufacture V05-L05K
microchannel plates V05-K01A
tube per se V05-K01

Electron Paramagnetic Resonance - see EPR

Electron secondary emission measurements S03-E06D

Electron Spin Resonance - see ESR

Electron tube
analysing - see Analysing tube V05-F01
cathode ray tube - see CRT V05-D
classical vacuum tube - see Vacuum tube V05-B
cold cathode - see Cold cathode tube V05-B03
manufacture - see Discharge tube manufacture V05-L
microminiature - see Microfabricated cold cathode device V05-B05
processing - see Processing tube V05-F05A7A
V05-F05A7A
testing S01-G02A
V05-L07E1
thermionic - see Thermionic tube V05-B01

Electron-optical arrangements
analysing/processing tubes V05-F04C
cathode ray tube V05-D06A
discharge tubes (general) V05-M04
electrostatic, discharge tubes V05-M04A

Electron-optical system for analysing/processing tubes V05-F04C
beam aberration correction V05-F04C3
electromagnetic V05-F04C1A
electrostatic V05-F04C1E
for confinement V05-F04C8
for deflection V05-F04C5
for deflection, mfr. V05-L01B4A
for focusing V05-F04C3
for particle selection V05-F04C7
magnetic V05-F04C1A
type of V05-F04C1

Electron-stream lamp X26-A01A
construction - see Discharge lamp X26-A02

Electronic apparatus – see electronic equipment

Electronic ballast
discharge lamp X26-C01B2
discharge lamp, inverter-type X26-C01B2A
electrodeless lamp X26-C01B3
high pressure discharge lamp X26-C01B4
low pressure discharge lamp X26-C01B5

Electronic blackboard S06-K99G
W04-W05

Electronic circuits, testing S01-G01

Electronic component (general) V04-X
cleaning V04-X01D
container V04-X01A
drying V04-X01E
manufacture V04-X01F
marking V04-X
materials V04-X01B
nanomaterials V04-X01B1
packaging V04-X01A
recovery of materials V04-X01C
recycling of materials V04-X01C
shipping V04-X01A
storage V04-X01A
testing V04-X01F
transportation V04-X01A
waste decontamination V04-X01G
waste disposal V04-X01G

Electronic connector - see Connector

Electronic copier S06-K99B

Electronic documentation T01-J11C
help documentation T01-J11C2

Electronic equipment
adjustable feet V04-S
air cleaning V04-T03K
air filtering V04-T03K
base/cabinet/cover/drawer/housing - see Electronic appts., casing V04-S
battery holder compartment V04-S03
X16-F06
bracket V04-S09
card ejector V04-T02
casing (see also specific appts.) V04-S

casing, back panel interconnections V04-T02
casing, battery compartment V04-S03
X16-F06
casing, board guide V04-T02
casing, board locating strip V04-T02
casing, board runner V04-T02
casing, board spacer element V04-T02
casing, fire-proof V04-S22
casing, framework V04-T02
casing, handles V04-S30
casing, hinges V04-S30
casing, inserts V04-S30
casing, insulating material V04-S02
casing, insulating material, hermetically sealed V04-S02A
casing, insulating material, with conductive coating V04-S02B
casing, locks V04-S30
casing, manufacture V04-S10
casing, materials V04-S15
casing, mechanical details V04-S30
casing, metal V04-S01
casing, metal, hermetically sealed V04-S01A
casing, metal, with insulating coating V04-S01C
casing, motherboard / daughter board arrangement V04-T02
casing, non-metallic conductive material V04-S04
casing, panel spacer element V04-T02
casing, plastics V04-S02
casing, plastics hermetically sealed V04-S02A
casing, unspecified material V04-S09
casing, transparent V04-S20
circuit module (de)mounting tool V04-T02
circuit modules arrangement V04-T02
clip V04-S09
component (de)mounting V04-T01C
component arrangement V04-T01C
component arrangement on conductive chassis V04-T01C
component arrangement on insulating board V04-T01C
component arrangement on insulating perforated board V04-T01C
constructional details V04-T
cooling V04-T03
V06-U04D
cooling, compressor V04-T03B2
X25-L03B
cooling, cryogenic V04-T03B3
cooling, fan V04-T03B1
X25-L04
cooling, forced fluid circulation V04-T03B
cooling, heat conductive plate V04-T03A
cooling, heat pipes V04-T03H
cooling, heat sink V04-T03A
cooling/heating, manufacture V04-T03Q
cooling/heating, materials V04-T03P
cooling/heating, monitoring V04-T03Q
cooling/heating, testing V04-T03Q
cooling, hybrid V04-T03G
cooling, MEMS based V04-T03F
cooling, natural fluid circulation V04-T03A
cooling, other cooling aspects V04-T03X
cooling, Peltier elements V04-T03C
U14-E05A2
cooling, pump V04-T03B2
X25-L03A
cooling, radiative V04-T03A
cooling, refrigeration V04-T03B2
cooling, solid state heat pump V04-T03C
U14-E05A2
cooling, thermoelectric V04-T03C
U14-E05A2
dehumidifiers V04-T03L
heating V04-T03J
hybrid electronic/optical board arrangements V04-T04
modular components V04-T01C1
mounting supporting structure in casing V04-T02
mounting supporting structure on rack V04-T02
nameplate details V04-S09
panel V04-S
protection U24-F
protection, analogue U24-F04
protection, automatic U24-F01
protection, digital U24-F05
protection, electrostatic U24-F06
protection, overcurrent limiting U24-F02
protection, overvoltage limiting U24-F02
protection, power supply U24-D01B
U24-F
protection, smart U24-F03
protection, surge U24-F02
protection, thermal U24-F07
rack construction V04-T02
ventilation slot V04-S
vibration damper V04-S09
wiring V04-T01A
wiring, bus-bar V04-T01A
wiring, duct V04-T01A
wiring, embedding V04-T01A
wiring, grommet V04-T01A
wiring, harness V04-T01A
wiring, identification marker V04-T01A
wiring, tie V04-T01A
wiring, tool V04-T01A
wiring, trough V04-T01A
wiring, trunking V04-T01A

Electronic funds transfer T05-L02
telephone line communication aspects W01-C05B3C

Electronic imaging - see Image

Electronic mail T01-N01C

Electronic metronome S04-C09

Electronic office T04-L07

Electronic paper W05-E10

Electronic Patient Record (EPR) S05-G02G1

Electronic photo frame W04-E30A5A

Electronic power distribution / transmission system U24-H

Electronic program guide (EPG)
analog radio broadcast system W02-E01B1
broadcast radio receiver W03-B08C5
digital radio broadcast system W02-D05C
W02-D07E
TV broadcast system W02-F10E5
TV receiver W03-A13J

Electronic still-picture camera W04-M01B1
detachable lens W04-M01C1D
digital/static recording type W04-M01B1C
dynamic recording type W04-M01B1A
integral hard copy unit W04-D10
W04-M01K
interchangeable lens W04-M01C1D
interfacing with PC W04-M01B1C
W04-M01D8C
W04-K08
video recording aspects W04-M01B1E

Electronic switching U21-B
accelerating speed U21-B02D
affecting state U21-B02B
analogue U21-B05A
applications - see **Electronic switching application** U21-B05
bidirectional switching U21-B02H
characterised by active device - see Electronic switching by active element U21-B01
circuit details U21-B02
compensating for physical parameter variations U21-B02G
control U21-B02A
eliminating noise/interference U21-B02F
introducing delay with capacitor U21-B02A1
introducing delay with counter/computer U21-B02A2
point/instant control U21-B02A
power-on resetting U21-B02B
proximity - see Proximity switches U21-B02C
sample-and-hold circuits U21-B03
switch protection U21-B02E
switching speed acceleration U21-B02D
switching speed acceleration, using series/parallel switches U21-B02D1
technology - see **Electronic switching by active device** U21-B01
testing U21-B02J
threshold switching U21-B02A3

Electronic switching application U21-B05
analogue U21-B05A
high power U21-B05B
high speed U21-B05B
logic U21-B05D
multiplexer U21-B05E
W02-K02
power converter U21-B05C
pulse distributor U21-B05X
telephony U21-B05E
W01-B02

Electronic switching by active element U21-B01
bipolar transistor U21-B01A
chalcogenide materials U21-B01P
compound (mixed technology) U21-B01D
diode U21-B01A
field effect transistor U21-B01B
galvano-magnetic/Hall effect device U21-B01X
IGBT U21-B01A1
nano-tubes U21-B01T
opto-electronic device U21-B01E
phase-change materials U21-B01P
superconductive device U14-F02C
U21-B01X
thyristor U21-B01C
transformer coupling U21-B01D1

Electronic tag
antitheft W05-B01A2
RF transponder aspects T04-K03B
W02-G05A
W06-A04B
workpiece T05-G02B1A
W06-A04B5E

Electronically Addressable shelf edge display T05-L01F

Electro-optical detection
materials investigation S03-E04A1
photometry S03-A01B

Electrophoresis
analysis S03-E03E
coating X25-R07
detectors S03-E09C7
recording by S06-E08

Electrophoretic display U14-K03
driving circuitry U14-K03B
manufacture U14-K03A2
structural arrangements U14-K03A1

Electrophoretic display control T04-H03C9

Electrophotographic technology display S06-E
W05-E08

Electrophotography S06-E
belt photoconductor S06-E01A9
binding, cutting, stapling of sheets S06-K05A
CCD photosensor S06-D05
charge elimination S06-K06B
charging photoconductor S06-E02
cleaning aspects S06-K06C
clearing paper jam S06-K02B
colour S06-K01
construction of appts. S06-K03
control system S06-K07A
copy prevention S06-K07A3
corona charger S06-E02
X12-F04
developer material, liquid S06-E04B1
developer material, solid S06-E04A1
developing using liquid toner S06-E04B
developing using solid toner S06-E04A
digital copier S06-K99B
discharging photoconductor S06-K06B
display S06-K07A1
doctor blade for cleaning S06-K06C1
editing copier S06-K99B
electronic copier S06-K99B
exposure driver S06-D04
S06-E03C
fault detection S06-K07B
feeding, duplex or multicopy S06-K02A
fixing belt S06-E06B1
fixing belt driving S06-E06B1
fixing roll driving S06-E06B
frame scanning, exposure S06-D01A
full colour printing S06-K01A
fuser oil application S06-E06C
fuser oil composition S06-E06C1
heat and pressure fixing S06-E06A
highlight printing S06-K01B

image reduction and magnification, mechanical S06-D10A
image transfer S06-E05
inorganic photoconductor S06-E01A2
lamp S06-E03E1
X26
laser printer S06-K99C
lens for exposure S06-D03
S06-E03B
light source S06-D02
S06-E03A
X26
light source biasing S06-E03E
line scanning, exposure S06-E03B
liquid toner material S06-E04B1
lithographic plate mfr S06-E01X
lustre control S06-E06D
magnetic brush developing S06-E04C
magnification, mechanical S06-D10A
mirror S06-D03
S06-E03B
multicolour S06-K01
not using charge patterns S06-E08
organic photoconductor S06-E01A1
ozone removal S06-K06B
paper manufacture S06-E01X
photoconductive layer S06-E01A
photoconductor carrier S06-E01B
photoconductor intermediate or cover layers S06-E01B
photoconductor sensitiser and binder S06-E01A3
photoelectric layer S06-E01X
photosensor S06-D05
pick-up S06-D05
power supply S06-K07A2
pre-fixing S06-E06P
prism S06-D03
S06-E03B
raster scanning exposure S06-D01B
recording member S06-E01
sensitising S06-E02
sheet collator S06-K02C
sheet decurling S06-K02E
sheet feeding S06-K02
sheet feeding, different paper sizes S06-K02B
sheet feeding, duplex S06-K02A
sheet shredding S06-K05C
sheet sorter S06-K02C
sheet storage S06-K03B1
slit scanning exposure S06-D01A
solid developer material S06-E04A1
solid toner supply and storage S06-K07B1
synchronisation, during exposure S06-D10A
thermal output S06-K99B
thermoplastic layer S06-E02
toner fixing S06-E06
toner level detector S06-K07B1
toner recycling S06-K06C2
toner removal S06-K06C
transfer apparatus S06-E05
care of S06-E05D
two colour printing S06-K01B
unusual input and output arrangements S06-K99B
user input S06-K07A1
using magnetic patterns S06-E07
using microcapsule sheet S06-B04A1
using thermoplastic layers S06-E07
ventilation S06-K03C
x-ray S06-D09

Electroplating X25-R04
conductive layer formation, semiconductor mfr. U11-C05C6
for magnetic record carrier mfr. T03-A02A1
hybrid/thick film circuit substrates U14-H04A2
interconnections for hybrid circuits U14-H04A2
magnetic record carrier V02-H02C

Electrorheological fluid X25-L09

Electrostatic
actuators V06-M06F
clutches V06-M06F
X11-H04
digital marking T04-A02A
discharge tubes V05-M04A
field measurement S01-D07A
field measurement, using optical techniques S01-D07A1
generators V06-M06F
holding devices V06-M06F
motors V06-M06F
printer, for computer S06-J
protection, low power electronic equipment U24-F06
protection casing V04-U21
reading, digital T04-A03A
recording methods T03-C01
W04-D
relays V03-D05C
separation X25-H02
spraying equipment X25-K01
transducers, acoustoelectric V06-V01C
writing, digital T04-A02A

Electrostatic chuck, semiconductor wafer handling U11-F02A2

Electrostatic deflection, CRT V05-D06B5
with electrodes on tube surface V05-D06B5A

Electrostatic separation X25-H02
constructional details X25-H02A2
from gas X25-H02A
from liquids X25-H02B
from solids X25-H02B
from vapour X25-H02A
plant or installations X25-H02A1

Electrostrictive
actuators V06-M06D
materials U11-A02
V06-V02R
motors V06-M06D
relays V03-D05A
resonators V06-V01B
V06-V01E
transducers (general) V06-V01B
transducers, acoustoelectric V06-V01B
ultrasonic motors V06-M06D1
ultrasonic transducers (general) V06-V01B
V06-V01N
vibrators V06-V01B
V06-V04C

Electrotherapy S05-A04
using electric fields S05-A03B

Electrothermal relay V03-D05D

Electrowetting displays U14-K05
Elevation, measuring S02-B05
Elevator - see Lift X25-F04
Eliminating/reducing asymmetry in polyphase networks X12-H01A6
Ellipsometry S03-A02C
S03-E04B5
EM compatability S01-G08C
EM field strength measurement S01-D07B
using optical techniques S01-D07B3
Embossing X25-X
Embroidery machine X25-T04C
Emergency broadcasting
radio (sound) W02-D07A
TV W02-F05D
Emergency broadcast reception
radio receiver W03-B08C7
TV receiver W03-A18A5J
Emergency exit signs W05-A03
Emergency supply - see Standby power supply
EMI shielding(screening) V04-U
building, for V04-U02
cable, for, (integral) X12-D03E
cable, for, (mountable) V04-U
cans V04-U03
casings V04-U03
computer equipment, for T01-L02D
elements V04-U04
EMC testing V04-U20
Faraday cage, building V04-U02
Faraday cage, room V04-U02
gaskets V04-U04
manufacture V04-U15
materials V04-U01
materials, superconducting U14-F01
V04-U01A
X12-D06B
measuring instruments, for S01-J02C
panels V04-U04
panels, casing V04-U04
PCB, for, (non-track type) V04-Q02A5
PCB, for, (track type) V04-Q05A
room, for V04-U02
telephone, for W01-C01A4
testing for EMC V04-U20
EMI suppression W02-H
Emission sources V05-F04A9
Emission spectrometry S03-A02X
Emissivity measurement, thermal S03-E01E
Emitting electrodes
cold cathodes V05-M03A
manufacture, for discharge tubes V05-L01A
Encapsulants for semiconductor devices U11-A07
Emotional state determination S05-D01X
voice analysis-based W04-V04A4
Encapsulation, resin, for semiconductor packages U11-E02A1
Enclosures
for loudspeakers V06-V02F
V06-V04A1
W04-S01E
for semiconductor devices U11-D01
Encoders, digital position U21-A03J
absolute U21-A03J5
capacitive U21-A03J9
conductive tracks U21-A03J9
inductive U21-A03J2
magnetic U21-A03J2
optical U21-A03J1
photoelectric U21-A03J1
Encoding
audio, general W04-V10
code conversion U21-A05
error detection/correction, data transmission W01-A01B
error detection/correction, general U21-A06
error detection/correction, recording U21-A06
T03-P01A
facsimile S06-K07A4D
hybrid coding systems for video signal W04-P01A4
JPEG W04-P01A3
movement detection systems W04-P01A1
MPEG W04-P01A4
predictive, for video signal W04-P01A5
speech W04-V05G
subsampling, for video signal W04-P01A7
transform, for video signal W04-P01A3
Encryption T01-D01
algorithm T01-D01A
data transmission W01-A05
End cap for insulating direct connection V04-A08
End cap for lamp
discharge lamp X26-A02A
incandescent lamp X26-B02A1
Endoscope
keyhole surgery S05-B05
medical S05-D04
medical imaging S05-D04B
optical fibre details V07-N02
photographic attachments S06-B09
positioning/moving in medical applications S05-D04A
Endpoint detection, semiconductor processing
CMP U11-C06A1C
wet etching U11-C07B1
Energy, measuring electrical S01-D02
Energy-assisted magnetic recording T03-A06N
Energy spectrometers V05-J01A5
S03-E10B
Engine
aircraft, control W06-B01A1
aircraft, external combustion Q25-C02B
aircraft, internal combustion Q25-C02A
exhaust system Q17-E09
Q51-J
gas turbine, testing S02-J01C
gas turbine, testing, for aircraft S02-J01C2
IC Q51

alcohol Q51-D07C
bio fuel Q51-D07C
diesel Q51-D03
free-piston Q51-B05A
gaseous fuel Q51-D07A
multicylinder Q51-A01B
oscillating piston Q51-B05
petrol Q51-D01
rotary engine Q51-B01
single cylinder Q51-A01A
two-stroke Q51-A01J
variable compression ratio Q51-A01G
variable cycle Q51-A01X
knock detection S02-F04D3A
X22-A05A2
misfire detection S02-F04D3A
X22-A01D
rocket engine Q52-B03
W06-B03
rocket motors and ion propulsion testing
S02-J01F
ship, control W06-C01A1
ship, external combustion Q24-E02B
ship, internal combustion Q24-E02A
steam Q51-C01
steam turbine Q52-A01S
steam turbine, testing S02-J01E
X11-A10
Stirling X25-X08
vehicle external combustion engine Q17-E
Q52
X22-P03
vehicle internal combustion engine Q17-E
Q51
X22-A

Engraving
coin or card actuated T05-H05E
engraving systems X25-X10
punching / stamping X25-A02D

Entertainment venues P36-F
W04-X03G

Entry or exit register
card or badge access T05-D01A
human feature detection T05-D01B
personnel control T05-D01
vehicles T05-D02

ENUM W01-C05B4C

Environmental suit P35-A03C

EPG (electronic program guide)
analog radio broadcast system W02-E01B1
broadcast radio receiver W03-B08C5
digital radio broadcast system W02-D05C3
TV broadcast system W02-F10E5
TV receiver W03-A13J

Epitaxial layer U11-C01J1

Epitaxy U11-C01
liquid phase epitaxy U11-C01H
molecular beam apparatus U11-C09D
molecular beam method U11-C01A2
vapour phase epitaxy U11-C01A1

EPR (Electronic Paramagnetic Resonance)

- see also NMR for common aspects/components S03-E07E

EPR (Electronic Paramagnetic Resonance)

- see NMR for common aspects/components S01-E02A4

EPR-(Electronic Patient Record) S05-G02G1

EPROM - see ROM, erasable programmable

Equal-length code, data transmission W01-A07B

Equalizing
audio/video magnetic recording W04-B
cable and line systems W02-C01B2
data transmission (baseband) W01-A08B2
delay network U25-E05Q
DSP-based U22-G03E3C
general data recording T03-P01D
infrared communications systems W02-C04A7A
magnetic recording T03-A06D
optical communications systems W02-C04A7A
radio links W02-C03E1
TV receiver, video signal W03-A04G

Equation solving, by computer T01-J04A

Erasing
audio/video W04-E20G
magnetic records T03-A06E
W04-B
magneto-optical records T03-D01E

Erasure
of digital marks T04-A02
of magnetic recording T03-A06E

Error concealment, video signal W04-P01F3

Error correction
coding systems U21-A06
data transmission W01-A01B
TV receiver signal decoder W03-A11D1
TV receiver teletext W03-A10A1

Error detection
coding systems U21-A06
digital computer checking codes T01-G01A
parity, computing T01-G01A1
pattern recognition T04-D05

Error detection/correction
coding systems U21-A06
coding systems, block codes U21-A06A
coding systems, convolution codes U21-A06C
coding systems, CRC U21-A06A1
coding systems, Hamming codes U21-A06A3
coding systems, interleaving U21-A06E
coding systems, parity bit U21-A06A2
coding systems, Reed Solomon coding U21-A06A4
coding systems, Trellis coding U21-A06C3
coding systems, turbo coding U21-A06C2
coding systems, using multiple coding techniques separately U21-A06G5
coding systems, using multiple coding techniques together U21-A06G1
coding systems, Viterbi coding U21-A06C1
data transmission W01-A01
data transmission, block codes W01-A01B1
data transmission, codes W01-A01B
data transmission, convolution codes
W01-A01B2
data transmission, diversity, repeating or returning W01-A01A
data transmission, format W01-A01B3
data transmission, hybrid coding W01-A01B4

data transmission, interleaving W01-A01B5
data transmission, parity W01-A01B1A
data transmission, quality measurement W01-A01C
recording, audio W04-G01F1
recording, general T03-P01A
recording, video W04-F01F5
W01-A01B2E
telemetry W05-D05

Esaki diode U12-C01E

Escalator - see Lift X25-F04

Escape chutes and slides
aircraft Q25-B09E
buildings and general P35-A01E

ESR - see also NMR for common aspects/components S01-E02A4
S03-E07E

Etchants
dry, semiconductor mfr. U11-A10
U11-C07A1
wet, for semiconductor mfr. U11-A10
U11-C07B

Etching
AII-BVI compound layer U11-C07C4B
AIII-BV compound layer U11-C07C4A
AIV element/compund layer U11-C07C4C
beam scribing, semiconductor mfr. U11-C07A4
conductive layer, semiconductor mfr.
U11-C07C2
dry, appts. for semiconductor mfr. U11-C07A1
U11-C09C
dry, control, semiconductor mfr. U11-C07A3
dry, detecting end point, semiconductor mfr.
U11-C07A3
dry, semiconductor mfr. U11-C07A1
for planarisation, semiconductor mfr.
U11-C07D3
insulating layer, semiconductor mfr. U11-C07C3
laser scribing, semiconductor mfr. U11-C07A4
localised, laser induced, semiconductor mfr.
U11-C07A2
localised, particle beam induced, semiconductor mfr. U11-C07A2
magnetic head mfr. T03-A04A1E
masking techniques details U11-C04D
U11-C07D1
plasma, appts. for semiconductor mfr.
U11-C07A1
U11-C09C
X14-F02
plasma, semiconductor mfr. U11-C07A1
processing tube function V05-F08E1
reactive ion beam, semiconductor mfr.
U11-C07A1
reactive vapour, semiconductor mfr. U11-C07A1
silicon layer, semiconductor mfr. U11-C07C1
sputter, semiconductor mfr. U11-C07A1
thin film, semiconductor mfr. U11-C07C5
to produce finer details, semiconductor mfr. U11-C07D1
to produce taper/structural profile, semiconductor mfr. U11-C07D2
to produce trenches, semiconductor mfr.
U11-C07D4
using special masking techniques, semiconductor mfr. U11-C07D1
wet, control, semiconductor mfr. U11-C07B1
wet, detecting end point, semiconductor mfr. U11-C07B1
wet, semiconductor mfr. U11-C07B

Ethernet® W01-A06F1A

Euphonium (instrument) P86-A01A3

Evaluation, analogue T02-A04B3

Evanescent coupler - see Optical couplers
V07-G11

Evanescent RF waveguide filter W02-A05F

Evaporation, semiconductor physical deposition U11-C01A1

Excavator Q19-E
X25-D01
control T06-D08E
X25-D01

Exchanges, telephone W01-C02
automatic call distribution centre W01-C02G3A
call centre W01-C02G3B
central office type W01-C02G1
centrex W01-C02G5
W01-C03
failsafe and standby systems W01-C02A1C
intelligent network W01-C02A7A
private automatic branch exchange W01-C02G5A
statistical metering W01-C02A1A
subscriber services W01-C02B
testing W01-C02A1

Exchanges, data W01-A06
bus W01-A06B1
connections between exchanges W01-A06G3
failsafe and standby systems W01-A06A1
fault detection, isolation W01-A06A2
loop W01-A06B2
medium W01-A06C
monitoring W01-A06A
operation, logical structure W01-A06B8
star W01-A06B3
structure W01-A06B
testing W01-A06A
tree W01-A06B4

Excimer laser (see also Lasers) V08-A04B

Execution, program control T01-F03
branching T01-F03A
concurrent T01-F03B1

Execution, subprogram T01-F03C

Exercise
bicycle, static P36-A06
W04-X01A5A
equipment P36-A06
W04-X01
eye, medical S05-A07
treadmill P36-A06
W04-X01A5C

Expanding aerial
aerial per se W02-B08K
aerial support W02-B07A5

Expanding amplitude-compressed signals
U24-C02B

Expanding facsimile data S06-K07A4D

Expansion, amplification U24-C02B

Expert control system T06-A05A

Expert systems T01-J16A
knowledge base T01-J16A
Explosively-actuated switch X13-A04X
Explosives
detection using nuclear radiation S03-C03
investigation S03-E14E3
Exposure
photographic camera, control S06-B02
photographic printing, control S06-B04A5
time calculation, in photography S06-B02B
Exposure appts. for CRT screen mfr.
light source V05-L02E5C
optical system V05-L02E5A
Exposure, semiconductor lithography (see also Lithography, semiconductor) U11-C04
focussing U11-C04C2
tilt control U11-C04C3
vertical alignment U11-C04C3
Extended display identification data (TV / video display) W03-A08S1
Extender for remote control
AV equipment RC W03-G05A8
general RC W05-D08R
Extensible aerial
aerial per se W02-B08K
aerial support W02-B07A5
Extensible cable X12-D03A2
External electrode lamp X26-A01A
construction - see Discharge lamp X26-A02
External rotor type motor V06-M06T
Eye
exercise, medical S05-A07
medical testing S05-D05
movement measurement (non-medical) S05-D01C5A
for vehicle driver X22-E04
Eye diagram measurement W01-A01C5
Eye gaze determination
eye examination S05-D05
S05-D01C5
general application S05-D01C5A
T04-D07F1A
photgraphic camera subject determination S06-B01E
video camera subject determination W04-M01D2G
Eyeglasses X27-A02D
lenses P81-A01
P81-A50G
Eyeglasses for 3D viewing X27-A02D
with filters W03-A08E7E
with polarizers W03-A08E7E
with shutters W03-A08E7C
Eye pattern measurement W01-A01C5

F

Fabric manufacture X25-T04B
control T06-D03C
X25-T04B
embroidery machine X25-T04C
knitting machine X25-T04B2
non-woven fabric X25-T04B3
sewing machine X25-T04C
weaving machine X25-T04B1
Face/facial expression detection, digital/video camera W04-M01D2F
Facsimile S06-K99D
CCD recording head S06-D05
changing magnification S06-K07A4B
coin freed T05-H05C
colour and highlight S06-K01
confidential document handling S06-K07A3
construction S06-K03
control of operation S06-K07A
data compression, reduction, encoding S06-K07A4P
data preparation for transmission S06-K07C3
display S06-K07A1
electrical connectors S06-K03F
image acquisition S06-K07A4
image output S06-K07A4C
image processing S06-K07A4
image sensor reading circuitry S06-D05A
ink-jet printing S06-G
integrated with telephone apparatus W01-C01P4
interfacing S06-K07C2
laser printhead S06-E03A3
LED printhead S06-E03A2
memory S06-K07A4
monitoring operation S06-K07B
optical printing S06-E
picture processing S06-K07
power supply S06-K03
preventing illegal use S06-K07A3
printhead drive circuitry S06-G03
priority setting, for transmission S06-K07C4
reception S06-K07C5
recording image sensors S06-D05
recording or reading of data S06-D
remote monitoring S06-K07C6
scanning arrangements S06-D
scanning drive S06-D04
scanning optics S06-D03
scanning synchronisation S06-D04A
secrecy of transmission S06-K07C7
sheet counting S06-K07A5
sheet feeding S06-K02
sheet stapling/binding S06-K05
signal processing S06-K07
signal scrambling S06-K07C8
store and forward exchange S06-K07C2B
telephone, linked with W01-C05B1C
S06-K07C2A
thermal printing S06-H
transmission, general S06-K07C
user interface S06-K07A1
Factory automation T06-A04A2A
T06-A04B7
automatic warehousing X25-F07
goods tracking X25-F11
inventory/stock control X25-F09

malicious software protection
in FA network W05-D05B5C
W05-D07B
robot T06-D07B
X25-F05A
transmission systems for FA W05-D07B
unauthorized access protection
in FA network W05-D05B5E
W05-D07B

Fail-safe and standby systems
data exchange W01-A06A1
data exchange hot standby W01-A06A1A
general hot standby systems W02-G08A
line transmission systems W02-C01D3
line transmission systems hot standby
W02-C01D3A
network W01-A06A1
network hot standby W01-A06A1A
telecontrol/telemetry W05-D05C
telephone exchange W01-C02A1C

Fail-safe circuits
computing T01-G05
logic U21-C03C
using additional processors T01-G05B

Fairground equipment W04-X03G3

Fall-out measurements S03-D06

False alarm
alarm systems, prevention of W05-C02C5
constant rate (CFAR) radar systems
W06-A04E5

Fan
electrical details X25-L04
fan-assisted electric oven X27-C02C
hand-held fan P24-A03

Fan heater, electric X27-E01A2

Faraday cage V04-U02
electromagnetic screening V04-U02
electromagnetic screening for testing equipment S01-G08B5
magnetic screening V04-U02

Faraday cup
for current/voltage meaurement S01-D01D3

Faraday effect - see Optical modulation, magneto-optic control V07-K03

Faraday rotation
for current/voltage measurement S01-D01D5
for magnetic field measurement S01-E01C

Fare registering T05-C03

Fast breeder reactor X14-A01

Fastening elements Q61
anti-tamper Q61-F
bolt Q61-A03
clamps Q61-B
deformable Q61-G
friction grip Q61-B
hooks Q61-X
locking Q61-A07A
nail Q61-E
nut Q61-A01
rivet Q61-D
screw Q61-A05
self-tapping Q61-A07E
staple Q61-E
suction caps Q61-X
threaded Q61-A
torque limiting Q61-A07C
washers Q61-H

Fatigue testing (see also Thermal analysis)
applying impulsive forces S03-F02E
bending/twisting/shearing S03-F02D
steady tension/compression S03-F02C

Fault detection, location
cables installations (see also Cable)
S01-G05
X12-G01C
communication lines W02-C01D1
data communications equipment W01-A07L1
data exchanges W01-A06A2
data networks W01-A06A2
electrical (general) S01-G
electrical networks S01-G05
electrophotographic copier S06-K99B
radar equipment W06-A04E3A
semiconductor manufacturing equipment
U11-C09F1

Fault indicator X13-C01X
cable installation X12-G01C
fault simulation, digital computer T01-G07
line installation X12-G01C
other types of fault simulation T01-G07X

Fax – See facsimile

FDD (frequency division duplex) W02-K01C

FDDI, data network W01-A06B2
W01-A06C1

FDM W02-K01
data network access W01-A03E5
multichannel access W02-C03C3E

Feature recognition
general T04-D
human S05-D01C5A
human, for entry or exit control T05-D01B

Feedback oscillator, pulse generation
U22-A04A3

Feedforward amplifier U24-G03B1

Feeding
record carrier T04-A05
paper T04-J01

Fence, electric
general fencing X25-X11
livestock fencing X25-N02C

Fencing (sport) P36-A04
W04-X01K4C

Ferrodynamic relay V03-D05E

Ferroelectric capacitor
discrete V01-B02B9
integrated circuit U12-C02F

Ferroelectric memories - see Memories, with ferroelectric elements U14-A03F

Ferroelectric transistor U12-D02A7

Ferrofluid V02-A04

Ferromagnetic
waveguide filter W02-A05E
waveguide phase shifter W02-A06C2
waveguide switch W02-A04A1

FET - see Field effect transistor
FFT - see Fourier
FFT implementation T01-J04B1
Fibre Distributed Data Interface, data network W01-A06B2
W01-A06C1
Fibre manufacture X25-T04A
Fibre optic thermometer S03-B01G
Fibre optics
converting sensor output S02-K03B1
for imaging tubes V05-D07C5C
for temperature measurement S03-B01G
transducers S02-K03B1
Fibres, optical - see Optical fibre V07-F01A1
Field disturbance intruder alarm W05-B01A1
Field effect transistor U12-D02A
analogue integrated circuit form - see Analogue integrated circuits, FET U13-B02
ballistic U12-D02J2
CHEMFET U12-D02A
complete manufacture of discrete device U11-C18A3
digital integrated circuit form - see Digital integrated circuits, FET U13-C02
DMOS U12-D02A9
doping U11-C02J6
electrode manufacture U11-C05F1
ferroelectric transistor U12-D02A7
field effect oxide mfr. U11-C05B9A
floating gate U12-D02A1
gate insulation layer mfr. U11-C05F1A
heterostructure MISFET U12-D02A5
heterostructure, HEMT U12-D02D2
heterostructure, MODFET U12-D02D2
heterostructure, quantum well U12-D02D2
heterostructure, TEGFET U12-D02D2
HIGFET U12-D02A5
IGFET U12-D02A
integrated circuit structures U13-D02
ISFET U12-D02A
JFET U12-D02B
lightly doped drain (LDD) U12-D02A3
MESFET U12-D02B
MIOS structures U12-D02A2
modulation doped FET U12-D02D2
MOSFET U12-D02A
negative resistance U12-D02J1
one-dimensional charge carrier U12-D02D1
pn-junction gate U12-D02B
quantum-wire U12-D02D1
Schottky barrier gate U12-D02B
SISFET U12-D02A5
SOI substrate U12-D02A4
static induction U12-D02C
superconductive FET U12-D02A9
U14-F02B
testing U11-F01C5
U12-D02A
trench gate U12-D02A9
vertical MOSFET U12-D02A9
Field emission cathode - see cold cathode
field emitting structures, mfr. U11-C18B9
Field emission display V05-D01C3
anodes V05-D05F
cathodes V05-D05C5
cathode current limiting arrangement V05-D05C5C
complete emitter, gate and anode structure V05-D06A1F
drive circuitry V05-D10
emitter arrangements V05-D06A1E
gate electrodes V05-D06A2
microminiature cathodes V05-D05C5A
FIFO U14-A01X
U14-A08B1
Filament transport (recording) T03-E
Film circuits U14-H
Film formation, magnetic V02-H02
for record carrier mfr. T03-A02A
Film parameter investigation (semiconductor) U11-F01B
by image recognition T04-D07
U11-F01B3
Film resistor (discrete device only) - see Resistor V01-A02C
Film, photographic P83-B
S06-B
conveyance P82-T07
S06-B04E
magnetically marked, material S06-B09
manufacture S06-B04B
marking process, in camera S06-B01B2
processing S06-B04B
sensitivity, in exposure control S06-B02B1
speed reading, in exposure control of camera S06-B02B
winding, in camera P82-T07
S06-B08A
Film, semiconductor, measurement - see Semiconductor film measurement
Film, thick - see Thick film
Film, thin - see Thin film
Filter
discharge lamp coating X26-A02D
electric - see Electric filter
light fixture X26-D01C
incandescent lamp coating X26-B02X
optical - see Optical filter
Filter coil (noise) U25-E02
V02-F01J
W02-H
Filter connector - see Connector
Financial
banking T01-N01A1
business T01-N01A
business models T01-J05A2A
data analysis T01-J05A2C
EFT T01-N01A1
insurance T01-J05A2E
internet business models T01-N01A2
inventory monitoring/management T01-J05A2D
investment T01-J05A2F
stock and shares T01-J05A2F
workflow T01-J05A2B
Financial computer systems T01-J05A1
Fingerprint identification S05-D01C5A
T04-D07F2

Finishing apparatus S06-K05
Finite state machine U21-C03B4
Firewall T01-N02B1D
Fire alarms W05-B02
combustion products detection W05-B02A5
electric switch W05-B02D
false alarm prevention W05-B02
W05-C02C5
inflammable gas detection W05-B02A5
infrared heat radiation detection W05-B02B1
mechanically actuated W05-B02C
radiation detection from fire W05-B02B
ultraviolet flame detection W05-B02B5
Fire-fighting equipment P35-C01
X25-X05
fire engine P35-C01C5
Q19-H02
X22-P10
fire extinguisher P35-C01
X25-X05
for aircraft P35-C01C7A
Q25-B09A
for ship P35-C01C7E
Q24-B09A
for spacecraft P35-C01C7A
Q25-S06
for railway station P35-C01C3
X23-S03
for railway train P35-C01C7F
X23-A09
for vehicle P35-C01C7C
Q14-C20
sprinklers P35-C01C3
X25-X05
Fire-prevention equipment P35-C05
Fireworks Q79-F
bursting charge Q79-F03
shell/container Q79-F01
star pellets Q79-F02
First-aid kit P32-A60
First in first out - see FIFO U14-A01X
Fishing
angling (sport/leisure) P14-B02
W04-X01K7A
commercial P14-B02
X25-N02
Fishpond X27-H
Fitness training equipment P36-A06
W04-X01A5
Fixed capacitor
low power - see **Capacitor** V01-B
low power, mfr. - see **Capacitor mfr.** V01-B01G
V01-B04
power X12-B
Fixed pattern noise suppression W04-M01B7
W04-M01D6
W04-P01H1
Fixed resistor - see Resistor V01-A02
Fixed-program memories - see ROMs, fixed program U14-A06B
Fixing toner in electrophotography S06-E06
heat or pressure application S06-E06A
pre-fixing S06-E06P
roll and roll driving S06-E06B
Flame detection S03-E14R
Flame trap P35-C05
Flame welding X24-D05
Flash EEPROM - see ROMs, electrically erasable U13-C04B2
U14-A03B7
Flash, photographic S06-B03
discharge tube S06-B03A
X26-A01
X26-A02
electronic S06-B03A
incandescent lamp S06-B03B
X26-B02
Flash, video camera W04-M01H5
Flashlamp control X26-C01A
Flashlight X26-E01A
Flashpoint measurement S03-E01B
Flat cable X12-D03A1
Flat plate capacitor - see Capacitor V01-B03C3
Flaw detection
capacitive S03-E02C3
eddy current S03-E11A
electron absorption S03-E06A1
electron diffraction S03-E06C1
gamma ray absorption S03-E06A1
general S03-F09B
microwave S03-E05C
neutron absorption S03-E06A1
neutron diffraction S03-E06C1
optical S03-E04F2
radiation back scattering S03-E06C1
thermal S03-E01B
ultrasonic S03-E08A
using pattern recognition T04-D07A
using radiation, secondary emission S03-E06D1
X-ray S03-E06A1
Flexible cable X12-D03A2
Flexible printed circuit board mfr. (see also PCB mfr.) V04-R05D
FlexRay vehicle data network W05-D06F
W05-D07D
X22-K03
Flip chip U11-E01C
bonding U11-E01C
bonding pads, manufacture U11-C05G2B
U11-E01C
bonding pads, structure U11-D03B1
Flip-flop
astable U22-A04A
bistable U22-A04C
monostable U22-A04B
Flip-flop memories - see RAMs, static, with bistable FET cells U14-A03B1
Flip-flop pulse generator U22-A02D
Float switch V03-C06X
Floating gate FET - see Field effect transistor U12-D02A1

Floating zone, semiconductor crystal growth U11-B02A
Floats, level indicating S02-C06A
Floors – see Buildings, general mechanical construction and structural elements
Floor mat switch V03-B01D
Floppy disk T03-N01
drive/positioning T03-A08A1A T03-F02
loading T03-A08A1A T03-F01A
magnetic record carrier mfr. T03-A02E1C
magnetic record carrier per se T03-A01C1C
Flour mill (disc mill) P41-A03C P41-V60A
Flow cytometry S03-E04H S03-F05C S03-F06C
using optical fluorescence S03-E04D
using optical scattering S03-E04C1
Flow properties investigation (see also Viscometer) S03-F03
Flow switch V03-C06D
Flowing material, sampling S03-E13B2
Flowmeters S02-C
calibrating S02-C07
compensation S02-C07
compound meters S02-C03
continuous S02-C01
Coriolis S02-C01F
discontinous, volume S02-C02
electric/magnetic S02-C01B
electrical or magnetic effects S02-C01B4
Karmann type S02-C01A9
measuring relative flow S02-C03
mechanical, continuous S02-C01A
mechanical, using pressure difference measurement S02-C01A1
mechanical, using pressure measurement S02-C01A1
mechanical, using rotating vanes S02-C01A1
rotameter S02-C01A9
swirl type S02-C01A9
testing S02-C07
thermal - see also thermal flowmeter S02-C01B7
ultrasonic S02-C01B1
using wave effects e.g. sound S02-C01B1
vending machine T05-H06
venturi S02-C01A
vortex type S02-C01A1
Fluid pressure measuring - see pressure measurement S02-F04
Fluid speed measurement S02-G02
by measuring fluid force S02-G02B
by measuring pressure differences S02-G02B
electric S02-G02A
thermal S02-G02A
ultrasonic S02-G02X
using Bernoulli effect S02-G02B
using Doppler effect S02-G02X
Fluid-tightness testing S02-J06
acoustic/ultrasonic S02-J06A3
by detecting leakage fluid S02-J06A
by electrically detecting leakage fluid S02-J06A1
by measuring fluid loss/gain rate S02-J06B
immersion testing S02-J06A9
using pressure drop S02-J06X
using tracer to detect leakage fluid S02-J06A5
Fluidized bed
furnace Q77-A07
used in combustion system Q73-T10
Fluorescence for materials investigation S03-E04D
Fluorescent display tube V05-D01C
control aspects T04-H03C9
dot matrix display V05-D01C5
for displaying character only V05-D01C1
integral drive circuitry V05-D10
manufacture (see also Discharge tube mfr.) V05-L05D1C
seven segment display V05-D01C1
Fluorescent lamp X26-A01E1
construction - see Discharge lamp X26-A02
control X26-C01B X26-C01B5A
electronic ballast X26-C01B2 X26-C01B5A
inductive ballast X26-C01B1A X26-C01B5A
operating circuit X26-C01B X26-C01B5A
remote control W05 X26-C01B5A X26-C01E
starting circuit X26-C01B X26-C01B5A
Fluoroscopy, x-ray S03-E06B3
medical S05-D2A5B
Flute (instrument) P86-A01A5
Flux guide for magnetic head T03-A03J3A
Flux, soldering X24-A01A
Flux-gate sensor S01-E01X
Flux-sensitive magnetic head T03-A03C
ballistic magnetoresistive head T03-A03C3G
biasing arrangements T03-A03C9N
colossal magnetresistive head T03-A03C3X
combined with write head T03-A03C1
exchange layer T03-A03C9G
Hall effect type T03-A03C5
magnetic layers T03-A03C9A
magnetoresistive material type T03-A03C3
shielding layer T03-A03C9J
spacer layer T03-A03C9C
tunnel barrier layer T03-A03C9E
tunnel junction magnetoresistive head T03-A03C3C
Flyback dc-dc converter U24-D02B1
control U24-D01A U24-D02B1
Focal plane array U13-A01X
Focus detection
magneto-optical recording head T03-D01D1A
optical recording head T03-B02A1C
photographic camera S06-B01A

video camera W04-M01D2E

Focussing
components of CRT for electron beam V05-D06A3
exposure appts., semiconductor lithography U11-C04C2
magneto-optical recording T03-D01D1
optical fibre V07-G04
optical recording T03-B02A1C
photographic camera S06-B01
video cameras
automatic control W04-M01D5D
focus detection W04-M01D2E
moving image sensor W04-M01B8B
moving lens W04-M01C1B

Foil electrodes, capacitor - see Capacitor
for electrolytic capacitor V01-B01A5
for fixed capacitor V01-B03D1C
for power capacitor X12-B

Folded bit line architecture - see Memories, interconnection layout U14-C01

Folded capacitor - see Capacitor V01-B03C3

Folded dipole antenna
linear type W02-B01B1A
ring type W02-B01B2A

Folder, batch, in printing S06-C09

Food & drink testing S03-E14A2

Food processing
bulk X25-P01
control T06-D02 X25-P01
food packing/ canning X25-F03A
food packing/ canning X25-P01X
general food processing X25-P01X
industrial cooking / baking equipment X25-P01A
meat slicing X25-P01X
milk processing X25-P01C
packaging Q34-C

Food processor X27-B03

Food serving trolley X27-B09

Food temperature history (see also Thermometers) S03-B01 S03-E14A

Food warmer X27-B09

Foot pedal switch V03-B01B

Football P36-A01 W04-X01K1J
goal-line technology W04-X01C1C W04-X01K1J

Footwear P22
boots P22-B
cleaning equipment P28-C04
electrical details X27-A02B1
laces P22-T05
manufacture P22-M
novel footwear materials P22-T50
safety arrangements P22-T06
shoes, sandals P22-A
socks P22-C
soles, insoles and heels P22-T01
types of footwear P22-F
uppers, boot legs and tongues P22-T03
welt and lining P22-T04

Force measurement
by counter-balancing S02-F01A
by deformation of gauges S02-F01A
capacitive S02-F01B
Force Measurement S02-F01
hydraulic S02-F01A
inductive S02-F01B
magnetic S02-F01B
piezoelectric S02-F01E V06-V01B V06-V04G
piezoresistive S02-F01C
pneumatic S02-F01A
resistance strain gauge S02-F01C
special purpose S02-F03A
using variations in vibration frequency S02-F01B

Force measurement, special purposes S02-F03
belt tension S02-F03A
calibration, compensation and testing S02-F03X
muscular S02-F03A
rope tension S02-F03A
ski binding release force S02-F03A

Forecourt petrol dispenser X25-F03B2

Forging, metal X25-A02C
control T06-D05A X25-A02C

Forklift truck Q19-C06 X22-P05F X25-F05A
control T06-D08F X25-F05A
electric X21-A01B X25-F05A

Format, data transmission, error detection/correction W01-A01B3

Format Conversion T01-N03B4

Formatting record carrier
magnetic T03-A06F
magneto-optical T03-D01E7
optical T03-B05F

Forward DC-DC converter U24-D02B1
control U24-D01A U24-D02B1

Four pole characteristics, measuring S01-D05C

Fourier
analysis for electrical frequency measurement S01-D03C3
transform, computer processing T01-J04B1
transform, optical spectrometry S03-E04T

Fourth generation mobile phone system W01-B05A1A W02-C03C1H W02-K07C

Fractal image coding **T01-J10D** W04-P01A8

Frame scanning
electrophotography S06-D01A

Frame store for video signal W04-P01C
memory addressing and control W04-P01C5
novel memory aspects W04-P01C1
Frames, telephone distribution W01-B20
Franking apparatus, postal T05-C05
Fraud protection, smart card T01-H01C1
Free electron laser V08-A04E
Free space optical communication
alignment W02-C04A8
data interface W01-A07H3
data network W01-A06C3
general W02-C04B2
telemetry or telecontrol signal transmission using free space W05-D06A3
tracking W02-C04A8A
Freeze-frame display for TV receiver W03-A13C
Freezer - see Refrigeration
French horn (instrument) P86-A01A3
Frequency
measuring, by conversion to amplitude S01-D03A
measuring, by conversion to phase shift S01-D03A
measuring, by pulse counting S01-D03B
measuring, electrical S01-D03
measuring, optical (see also Optical) S03-A09
measuring, panoramic receiver S01-D03C1
measuring, spectral analysis of S01-D03C
measuring, using Fourier analysis S01-D03C3
measuring, using spectrum analyser S01-D03C1
measuring, using sweeping appts. S01-D03C1
spectral analysis, electrical S01-D03C
varying clock rate in computer T01-K01
Frequency changing U23-J05
Frequency comparators
analogue U23-C01
digital U23-C02
Frequency compressive feedback FM radio receiver W02-G03B7
Frequency control, lasers V08-A03C
Frequency control, musical tone W04-U03A
Frequency control/synchronisation, automatic U23-D
Frequency converter (power supply) U24-D03 X12-J03
matrix X12-J03A
Frequency divider
analogue U23-B01
counting chain implementation U21-D
digital, for pulse signals U22-D05A
digital, for sinusoidal signals U23-B02
PLL synthesizer U23-D01B1
Frequency division multiplex
data transmission W01-A03E5
frequency division duplex W02-K01C
general W02-K01
orthogonal (OFDM) W02-K07C
satellite communication system W02-K01A
Frequency hopping
- see **Spread spectrum** W02-K05A6
Frequency multiplier
analogue U23-B02
digital for pulse signals U22-D05A
digital for sinusoidal signals U23-B02
optical V07-K04
Frequency selective network
distributed constant W02-A05
lumped constant U25-E
Frequency shift keying W01-A09A2 U23-P01A1
Frequency synthesis using PLL U23-D01B
division circuit U23-D01B1
dual loop (using) U23-D01B7
fractional synthesis U23-D01B1A
output signal purity improvement U23-D01B5
reference oscillator U23-D01B3
variable ratio divider U23-D01B1
Frequency synthesis, direct U23-F03
analogue circuitry U23-F03A7
D/A and A/D aspects U23-F03A5
improve spectral purity U23-F03B5
improving frequency resolution U23-F03B1
increasing frequency transition U23-F03B3
memory aspect and look-up tables U23-F03A1
phase accumulators U23-F03A3
synthesiser performance U23-F03B
Frequency-deviation protection X13-C01X
Friction welding X24-D07
FSK U23-P01A1
FTIR spectrometer S03-A02F
Fuel analysis S03-E14E1
Fuel cell X16-C
alkaline X16-C03
anode and cathode gases separator X16-C16
bio(-catalyst) X16-C06
catalyst temperature control X16-C09 X16-K
control X16-C09
electrode X16-E06A
electrode details X16-E06A5
electrode details, catalyst X16-E06A5A
electrode details, gas diffusion layer (GDL) X16-E06A5E
electrode details, MEA X16-E06A5C
electrode details, membrane electrode assembly X16-E06A5C
electrode materials X16-E06A1
electrode materials, nanoscale X16-E06A1A
electrode separator X16-F02
flat X16-C07
for electric vehicle X21-A01J X21-B01A
fuel processing X16-C17
fuel processing, catalyst X16-C17C
fuel processing, heater X16-C17E
fuel processing, hydrogen mfr X16-C17A
fuel processing, reformer X16-C17A1
fuel reformer X16-C17A1
fuel/gas supply X16-C15A
fuel/gas supply, flow plates X16-C15A2
fuel/gas supply, manifolds X16-C15A1

fuel/gas supply, pumping X16-C15A4
fuel/gas supply, wicking X16-C15A3
fuel storage X16-C15C
fuel storage, bulk X16-C15C1
fuel storage, hydrogen absorbing/storing material X16-C15C3
fuel storage, replaceable container X16-C15C2
fuel storage, nanomaterial/nanotube X16-C15C3A
gas/air circulation control X16-C09
gas diffusion layer X16-E06A5E
housing X16-C18
hydrogen generation X16-C17A
micro X16-C07
molten carbonate X16-C02
PEM X16-C01C
phosphoric acid X16-C04
proton exchange membrane X16-C01C
seal X16-C18
separator, electrodes X16-F02
separator, gases X16-C16
solid oxide X16-C01A
solid oxide, monolithic X16-C01A3
solid oxide, tubular X16-C01A1
solid polymer X16-C01C
solid polyethylene X16-C01C
SPE X16-C01C
stack X16-C18

Fuel injector
IC engine Q51-H01B X22-A02A1
vehicle Q17-E X22-A02A

Fuel pump
IC engine X22-A02D
vehicle X22-A02D

Fuel system
vehicle X22-A02

Fuel/primary cell combination X16-D

Fuel/secondary cell combination X16-D

Full colour printing S06-K01A

Full frame scanning
electrophotography S06-D01A

Full-bridge dc-ac converter U24-D05A X12-J05A
control U24-D01A U24-D05A X12-J01A X12-J05A X13-H03A

Full-bridge dc-dc converter U24-D02B5 X12-J02B
control U24-D01A U24-D02B5 X12-J01A X12-J02B X13-H03X

Full-wave ac-dc converter U24-D04C X12-J04C
control U24-D01A U24-D04C X12-J01A X12-J04C X13-H03B

Funds transfer, electronic T05-L02

Funeral apparatus P33-A40

Furnace resistance-heating element X25-B01E1

Furnace, semiconductor manufacture
sintering/ curling furnaces U11-C09E

Furnace treatment, semiconductor U11-C03A

Furnace X25-C Q77
air blower Q77-T02
burner Q77-T03
casing Q77-T01
drum Q77-T01
dust collector Q77-T08
feeder/hopper Q77-T05
flue-gas stack Q77-T07
fuel used
coal Q77-B01
gas Q77-B03
oil Q77-B02
wood Q77-B04
constructional details Q77-T
control Q77-T20
control, electrical X25-C03
cooling arrangements Q77-T10
heat exchanger Q77-T06
lining Q77-T01
maintenance Q77-G
monitoring X25-C03
radiant coils/tubes Q77-T04
recycling of furnace components Q77-R
repair Q77-G
roof/wall Q77-T01
safety Q77-T20
soot blower Q77-T08
tuyere Q77-T02
types of furnace
arc X25-C02
discharge X25-C02
fluidized bed Q77-A07
hearth-type Q77-A03
horizontal Q77-A02
induction X25-C05
muffle Q77-A04
resistance X25-C01
retort Q77-A04
vertical furnaces Q77-A01
waste heat management Q77-D

Furnace (applications)
laboratory Q77-U14
industrial X25-C
metallurgy Q77-U26
waste disposal/treatment Q77-U20

Furniture
accessories, e.g. throw P26-F P27-B02
bed P26-B02
bed linen P27-B02
bench P26-A
blind P27-C
carpet, rug P27-B04
chair P26-A
children, furniture for - P26-E
clothes hanger/rack P27-B05
curtain P27-C
cushion P26-C

electrical aspects X27-A03
electrical heater X27-A03
X27-E
electronic office T04-L07
fittings for shops, restaurants and warehouses P27-A
garden X27-A01B
home furniture P25
manufacture P25-M
P26-M
mattress P26-C
mirror P27-B01
office furniture P25
picture frame P27-B01
sofa P26-B01
sofa-bed P26-B03
table P25-A

Fuses, electrical X13-D01
caps X13-D01B
cartridge fuses X13-D01T2
casings X13-D01B
elements X13-D01A
expulsion fuses X13-D01T3
fillings X13-D01A
film fuses X13-D01T5
for vehicle X22-X01C
fuse resistors X13-D01T6
fuse-switch X13-B01
fusible-links X13-D01A
holders V04-K03
housings X13-D01B
indicators, operation X13-D01B
manufacture X13-D01C
manufacture, integrated circuit U11-C05G2A
markings, distinguishing X13-D01B
materials, fusible member X13-D01A
memory U14-A06B1
monitoring X13-D01C
printed fuses X13-D01T5
semi-enclosed fuses X13-D01T1
SF6 fuses X13-D01T9
SMT fuses X13-D01T7
striker fuses X13-D01T4
structure, integrated circuit U12-C04
switch-fuse X13-B01
terminals X13-D01A
testing X13-D01C
thick film fuses X13-D01T5
thin film fuses X13-D01T5
vacuum fuses X13-D01T8

Fuses, thermal X13-D12
manufacture X13-D08
testing X13-D08

Fuses (thermal/electrical) applications
aerospace X13-U03
aviation X13-U03
boats X13-U04
industrial machines X13-U06
military X13-U05
railway X13-U02
road vehicles X13-U01
ships X13-U04

Fuse layer formation, semiconductor U11-C05G2

Fuse programming for memories - see ROMs, non-reprogrammable, using fuses U14-A06B1

Fuser oil S06-E06C

Fusion reactor X14-A03
poloidal coil X12-C01B1
X12-C01F
X14-A03
toroidal coil X12-C01B1
X12-C01F
X14-A03

Fuze
blasting X25-D01
weapon W07-C01

Fuze actuation (weapons) W07-C03
impact switch W07-C03
responsive to sensed proximity W07-C03C
responsive to sensed vibration W07-C03A
time delay W07-C03E

Fuzzy control system
fuzzy logic control system T06-A05A1
for vehicle X22-Q
for vehicle engine X22-A03K

Fuzzy logic
analogue elements and systems T02-A04B6
computer data processing systems T01-J16B
elements U21-C03B1B

G

Gain control U24-C
- amplitude-locked loop U24-C01G
- automatic (AGC) U24-C01
- combined with tone control U24-C05D
- companders U24-C02B
- control signal derivation U24-C01C
- DC limiting U24-C02A5
- digital / computer control details U24-C05B
- limiters U24-C02A
- manual U24-C05A
- manual, continuously-variable U24-C05A1
- manual, stepped variation U24-C05A5
- muting U24-C05C
- muting, radio receiver W02-G03B1
- peak detector U24-C03A
- signal rectifier, general U24-C03
- stepped variation, manual U24-C05A5

Gallium aluminium arsenide- see AIII-BV compounds

Gallium arsenide- see AIII-BV compounds

Gallium indium arsenide- see AIII-BV compounds

Gallium nitride - see AIII-BV compounds

Gallium phosphide- see AIII-BV compounds

Galvano-magnetic device (see also Transducers) U12-B01
- magnetic field measurement application S01-E01B1

Games P36-C, W04-X02
- amusement-with-prizes (AWP) T05-H05E, W04-X02A3
- arcade P36-C, T05-H05E, W04-X02A8
- betting W04-X02G
- board P36-C01, W04-X02B1
- card playing equipment P36-C05, W04-X02B5
- casino equipment P36-C09, W04-X02E
- chess P36-C01, W04-X02B1
- coin operated P36-C, T05-H05E, W04-X02A
- computer / video games T01-P02A, W04-X02C
- dealing equipment (cards) P36-C05, W04-X02B5
- draughts P36-C01, W04-X02B1
- fruit machine T05-H05E, W04-X02A3
- Integrated with telephone W01-C01P6L
- interactive broadcasting W02-F10G, W04-X02C
- lottery equipment T05-F, W04-X02G
- mahjong P36-C03, W04-X02B
- pachinko P36-C13, W04-X02A1
- pinball P36-C13, W04-X02A1
- playing card dealing equipment P36-C05, W04-X02B5
- roulette P36-C09, W04-X02B, W04-X02E
- video W04-X02C
- with physical interaction W04-X02A5

Gamma camera - see also nuclear imaging S03-G02B3
- for medical diagnosis S05-D02C
- scintillator S03-G02B1
- semiconductor detector S03-G02B2G

Gamma correction, video signal
- general W04-P01E1
- TV receiver W03-A04A

Gamma ray analysis (see also Nuclear radiation) S03-E06

GAN (Generic Access Network) W01-C05B4C

Gang bonding
- bonds U11-D03A2
- for semiconductor device packages U11-E01B

Garage Q46-B04

Garbage disposal
- industrial / large scale X25-W01
- domestic X27-K
- general P43-E
- general, by burning P43-E01
- general, by burying or dumping P43-E03
- general, by treating or converting P43-E05

Garden equipment X27-A01
- furniture X27-A01B
- hedge clipper X27-A01A
- lawn mower X27-A01A
- sprinkler X27-A01
- table P25-A01C

Garment - see Personal article, clothing
- electrical details X27-A02B1
- non-electrical details P21

Gas
- consumption meter S02-C02C
- prospecting S03-C

Gas alarms W05-B02A
- carbon monoxide detection W05-B07L1
- combustion products detection W05-B02A5
- inflammable gas detection W05-B02A5
- ionisation chamber W05-B02A3
- personal safety gas alarm W05-B07L

Gas utility failure alarm W05-B08J
- commercial W05-B08J5
- domestic W05-B08J1
- industrial W05-B08J3
- producer W05-B08J7

Gas analysis, optical, non-dispersive S03-E04B1A

Gas chromatography S03-E09C1

Gas circuit breaker
- with built-in arc control X13-B02B
- with separate arc control X13-B03A1

Gas cooker X27-C05

Gas discharge display - see Plasma display tube V05-A01
Gas discharge tube
display - see **Plasma display tube** V05-A01
manufacture V05-L05A
surge protection tube V05-A05
switching tube V05-A03
Gas filling
analysing/processing (e.g. plasma) tube V05-F04E
discharge tube (general) V05-M09
Gas lasers - see Lasers V08-A04B
remote reading S02-K08A
Gas sampling (see also Pollution and Air quality) S03-E13C
Gas sensor S03-E14P
electrochemical (see also under electrochemical) S03-E03
for combustion products - see also vehicle and IC engine
for chemical reaction products S03-E14P1
for other products S03-E14P9
semiconductor S03-E02A
U12-B03E
semiconductor manufacture U11-C15B1
Gas turbine Q52
control, aircraft W06-B01A1
electric power generation X11-C01
carbon footprint reduction X11-C08
catalytic converter X11-C08
environmental protection X11-C08
monitoring, operation and control X11-C10
gas turbine generator, application X11-U01C
engine testing S02-J01C
engine testing, for aircraft S02-J01C1
for aircraft Q25-C02B
for ship Q24-E02B
for train Q21-C01C
Gas welding X24-D05
Gas-filled tube
anodes, electrodes V05-A07A1
cathodes, electrodes V05-A07A3
complete novel device V05-A07G
control of electrodes V05-A07A5
details V05-A07
electrodes V05-A07A
gas filling V05-A07C
grids, electrodes V05-A07A5
heated cathodes, electrodes V05-A07A3A
lead-ins V05-A07B
seals V05-A07B
switching V05-A03
X13-A04H
vessels V05-A07B
Gate arrays U13-C04D
wiring aspects U11-D03C2
Gate turn-off thyristor - see Thyristors, gate turn-off U12-D01B3
Gated amplifier U24-G02F1
Gates, logic - see Logic gates U21-C03B
Gauges
mechanical S02-A01B
precipitation S03-D02A
pressure- see pressure gauges S02-F04
vacuum S02-F04D1
vehicle X22-E
wind direction S03-D01
wind speed S03-D01
Gaussian phase shift keying W01-A09B
Gear
dynamoelectric V06-M06
X11-H03A
electrically-driven X25-L02
testing S02-J03A
Gearing Q64-C
aircraft Q25-C03A
ships Q24-E03A
vehicle Q13-A24
Q64-C
Geiger-Muller tube
nuclear radiation measurement S03-G02B2A
tube per se V05-H
Gender determination S05-D09
General circuit mfr
(de)soldering electronic components, appts
V04-V01
X24-A02
(de)soldering electronic components, method V04-V01
X24-A01C
assembling electronic components V04-V01
bending component leads V04-V02A
clinching component leads V04-V02A
component bandolier V04-V01A
component magazine V04-V01A
component value changing tool V04-V09
cutting component leads V04-V02A
feeding components V04-V01
forming component leads V04-V02A
mounting components V04-V01
orienting components V04-V01
removing electronic components V04-V01
shaping component leads V04-V02A
trimming component leads V04-V02A
wiring V04-V02
General circuit mfr. (see V04-R for PCB **mfr. in particular)**
Generator
arbitrary function, analogue T02-A04B4
character or stroke T04-H01A1
diesel-electric locomotive X23-A01A2
digital function T01-J17
ion beam for propulsive effect V05-E05A
ion for processing tube V05-F04A5
pattern (video) W04-M07
pulse - see Pulse generation U22-A
synchronising pulse, TV W04-M05
synchrotron V05-E03A
vibration, general P43-A01
vibration, industrial scale X25-L05
vibration, small scale V06-V04C
video W04-M
welding (see also X11) X24-G
wind power X15-B01B
X-ray, for medical purposes S05-D02A3
Generator, electromechanical - see Electric Machine
Generic Access Network (GAN) W01-C05B4C
Genetic Algorithms T01-J16C4

Geographical Information systems T01-J06B1
Geophones S03-C01B
testing S03-C09
S03-C10
Geophysics- see prospecting S03-C
Geothermal power generation X15-G
constructional details X15-W
control, monitoring & testing X15-V
electricity generation X15-G01
thermal power/heating X15-G02
Germanium- see AIV elements and their compounds
Getter
CRT V05-D07E
discharge lamp X26-A02X
discharge tube V05-M06
incandescent lamp X26-B02X
manufacture V05-L06
Gettering
discharge tubes V05-L03C7A
semiconductor mfr. U11-C03J2B
Ghost control reference signal transmission W02-F05C
Ghost suppression circuit (TV receiver) W03-A04G
Girders– see Buildings, general mechanical construction and structural elements
Glass
analysis S03-E14D4
working X25-A05
Glassware P27-B03
Global Positioning System S02-B08C
W06-A03A5
Glow discharge heating X25-B03B
GMSK W01-A09B
Goal-line technology, football W04-X01C1
W04-X01K1J
Goggles X27-A02D
for protection against laser radiation V08-A10
night vision W07-G01
Golf P36-A01
W04-X01K1L
analysis of swing S02-H
W04-X01A1
cart W04-X01F
portable hole distance measuring equipment W04-X01C1
W04-X01E
swing training W04-X01A
training simulator W04-X01A3
angle/orientation measurement S02-A10D1
using optical method S02-A03
Goods X25-F
automated warehousing X25-F07
conveying vehicle X25-F05A
control T06-D08F
inventory control X25-F09
labelling X25-F03A3C
packaging X25-F03A1
smart packaging X25-F03A3A
packages X25-F03A3
smart packages X25-F03A3A
stock management X25-F09
tagging X25-F03A3C
tracking X25-F11
Government T01-J05A3
T01-N01A3
GPRS
mobile phone aspects W01-C01D3C
W01-C01G6G
system aspects W01-B05A1A
W01-C05B3J
W02-C03C1A
GPS W06-A03A
absolute position determination W06-A03A5C
anti-jamming systems W06-A03A5M
differential global positioning system W06-A03A5A
jamming systems W06-A03A5M
novel GPS receiver W06-A03A5R
novel infrastructure W06-A03A1
position determination for secondary purpose W06-A03A5E
receiver integrated with telephone W01-C01P7
use as a frequency standard W06-A03A5J
use as a time standard W06-A03A5G
Gradient coil for MRI/NMR S01-E02A8A
S03-E07
V02-F01G1
medical-use S03-E07
S05-D02B1
V02-F01G1
Gradient freeze crystal growth, for semiconductor mfr. U11-B02X
Grading and sorting objects P41-K
T05-K
X25-F06
based on density P41-K01E
based on dimensions P41-K01A
based on weight P41-K01C
Grain
buhrstone P41-A03C
P41-T01H
P41-V60A
dehusking P41-A07A
P41-V60A
mill (disc mill) P41-A03C
P41-V60A
millstone P41-A03C
P41-T01H
P41-V60A
Gramophone pick-up V06-V04A3
W04-A02
Graph
reading, for computer input T04-E
graph generation T01-J10C1
Graphic equalisers W03-C05C
Graphics, computer T01-J10C5
Gratings, diffraction - see Optical elements V07-F02B
Gratzel cell X15-A02D1
Gravimetric
analysis S03-E12A
prospecting S03-C04

Gravitational
field/waves, measuring S03-C04
timepiece S04-A09
Grinding P61-A01
X25-A03C2
applications P61-U
constructional details P61-T
control T06-D07A
X25-A03C2
X25-A03F
drives P61-T04
honing P61-A01B
lapping P61-A01C
linear P61-A20B
mechanism P61-A20
polishing P61-A03
portable/hand-held P61-A20G
rotary P61-A20A
sharpening P61-A01A
semiconductor wafers U11-C06A1A
specific materials P61-V
with blast material P61-A20C
Group delay correction network (lumped constant) U25-E05X
Group delay measurement S01-D05C
GSM telephone handset W01-C01D3C
GSM telephone system W01-B05A1A
W02-C03C1A
GUI T01-J12
digital camera control W04-M01B1
W04-M01D1C
TV receiver application W03-A02C5A
video camera control W04-M01D1C
Guidance
systems for weapons W07-A01
vehicle T07-D
vehicle, on-board computer T01-J06B
Guitar pick-ups W04-U02A1
Gull-wing leads U11-D03A3
Gunn-effect devices U12-B02A
Gymnastics P36-A06
W04-X01A5
Gyrators U25-C
Gyratory crusher P41-A01G
Gyroscope S02-B07
W06-A07
inertial navigation system W06-A07
optical S02-B07B
ring resonators V08-A01A1
using optical fibres V07-N01
with electrical transducer S02-B07A
Gyrotron V05-C01D
manufacture V05-L05C
tube details V05-C01D1

H

Haberdashery P23-A
Hair
clipper X27-A02A3B
curler X27-A02A1
depilatory tool X27-A02A3B
drier X27-A02A1
laser removal S05-A03A2
tong X27-A02A1
Hairdressing equipment P24-C01
Half-bridge dc-ac converter U24-D05A
X12-J05A
control U24-D01A
U24-D05A
X12-J01A
X12-J05A
X13-H03A
Half-bridge dc-dc converter U24-D02B3
control U24-D01A
U24-D02B3
Half-duplex data transmission W01-A03D1
Half-wave ac-dc converter U24-D04A
X12-J04A
control U24-D01A
U24-D04A
X12-J01A
X12-J04A
X13-H03B
Hall effect
conversion of sensor output S02-K03A5E
devices U12-B01A
magnetic field measurement S01-E01B1
magnetic heads T03-A03C5
transducers S02-K03A5E
Hammer P62-A07
crusher P41-A01J
mill P41-A03G
Hammering X25-A02D
control T06-D05A
X25-A02D
engraving systems X25-X10
Hamming code error detection/correction
U21-A06A3
Hand tools P62
axe, hatchet P62-B10
chisel P62-A08
constructional details P62-T
cleaning of P62-G
fastening tools P62-A05
for specific materials P62-V
hammer P62-A07
knives P62-B05
nailing tools P62-A06
pliers, tweezers P62-A01
punch P62-B01
razor P62-B09
scissors P62-B07
screwdrivers P62-A03
spanner, wrench P62-A02
stapler P62-A06
vice/clamps P62-D02
workbench P62-D01

Hand scanner for computer input T04-M02

Hand written character
- computer input T04-F04
- recognition T04-D07E

Hand-off for mobile radio system
- cellular W02-C03C1D
- non-cellular W02-C03C3D

Handicapped person, aid device S05-K
- for motor vehicle X22-X
- for computer T01-J31
- mobility aid S05-K01

Handling
- coils X25-F02
- envelope X25-F02A
- mining materials X25-D02A
- paper strip X25-F02A
- strips X25-F02
- webs X25-F02

Handling semiconductor components U11-F02
- conveyors U11-F02A
- semiconductor die handling U11-F02A3
- wafer holders, electrostatic chuck, jig, inside processing appts. U11-F02A2

Hands, clock or watch S04-A02A

Hanging dot interference suppression (colour TV receiver) W03-A05B5

Haptic systems
- force feedback for input device T04-F03
- telephone set, signal processing W01-C01Q6E
- telephone set, transducer systems W01-C01G8E
- virtual reality systems W04-W07E5

Hard copy video recording W04-D10
- integral with video camera W04-D10, W04-M01K
- printer details S06, W04-D10
- signal processing W04-D10, W04-F01, W04-P01

Hard disk
- audio recording system W04-B14C1
- card-type hard disk drive T03-A08A1E
- drive T03-A08A1C, T03-A08A5, T03-F
- magnetic record carrier mfr. T03-A02E1A
- magnetic record carrier per se T03-A01C1A
- portable hard disk drive T03-A08A1G
- set-top box recorder W03-A16E1
- video recording system W04-B14C3

Hardware (Digital Computing)
- Defective hardware location T01-G02A
- monitoring, computer T01-G05
- testing, computer, idle time T01-G02
- testing, vibration T01-G04

Hardware for antenna mounting W02-B07A1C

Harmonic distortion reduction in amplifiers U24-G03D5A

Harmonic generation in frequency multipliers U23-B

Harmonica P86-A01A1

Harmonics, measuring S01-D03C5

Harmonics, reduction in RFI suppression W02-H01G1

Harness, general safety P35-A03A

Harvesting P12
- cleaning, maintenance/repair of tools and machines P12-G
- constructional details of machinery P12-T
- control T06-D01A, X25-N01A
- machinery/instruments P12-A
- tobacco P15-L01
- type of produce P12-C

Hauling equipment X25-F05

Hazmat suit P35-A03C

HCl T01-J12

HDLC W01-A06F

HDMI (High definition multimedia interface) W03-G05C3

HDTV receiver W03-A11
- decoder W03-A11D
- error detection / correction W03-A11D1
- novel standard recognition circuit W03-A11B5
- picture signal motion detector W03-A11C
- scanning format setting based on detected standard W03-A11B1A
- standard recognition W03-A11B

HDTV signal processing for video recording W04-F01H5

Head positioning, general recording T03-G
- magnetic T03-A05
- optical T03-B02A3

Head, dummy for binaural recording V06-V02G, W04-R01C1

Head, dynamic recording - see Recording/reproducing head (dynamic)

Head-up display W04-Q01K
- for aircraft W04-Q01K, W06-B01B
- vehicle X22-E07

Headphone V06-V04A4
- automatic cord winders X12-G10
- circuits V06-V02S
- cordless connection system W03-G05C5A
- manufacture V06-V03A, V06-V04A4
- testing V06-V03B, V06-V04A4
- transducer types - see Acoustoelectric transducer V06-V01

Health care administration S05-G02G2

Hearing aid W04-Y
- audio amplifier W04-Y03A
- battery W04-Y03E
- behind-the-ear type W04-Y05A3
- carried outside auditory meatus W04-Y05A3
- carried within auditory meatus W04-Y05A1
- casing W04-Y01A
- cerumen accumulation prevention W04-Y01A
- circuitry W04-Y03

- combined with other appts. W04-Y05A5
- constructional details W04-Y01
- coupling reduction W04-Y01A1
- digital signal processing W04-Y03G
- earphone transducer V06-V04A4
  W04-Y02
- external type W04-Y05A
- feedback reduction by construction W04-Y01A1
- feedback reduction by DSP W04-Y03G7
- feedback reduction by gain control W04-Y03A1A
- frequency domain manipulation W04-Y03G1
- gain control W04-Y03A1
- housing W04-Y01A
- hygiene aspects W04-Y01A
- implanted type S05-F01
  W04-Y05C
- in-the-ear type W04-Y05A1
- inductive loop transmission system W02-C02B
  W02-C02G3A
  W04-Y03C5
- interfacing W04-Y03C
- interfacing, remote control W04-Y03C1C
- interfacing, signal transfer W04-Y03C1A
- internal details W04-Y01B
- microphone transducer V06-V04A2
  W04-Y02
- power supply W04-Y03E
- programming W04-Y03P
- self-testing and diagnostic systems W04-Y03D
- set-up by technician W04-Y03P
- special localisation W04-Y03G3
- spectacles type W04-Y05A5
  X27-A02D
- telephone coupling W01-C01X
  W04-Y03C5
- tone and bandwidth control W04-Y03A3
- transcutaneous signal transfer W04-Y03C1A
  W04-Y05C1
- transducers W04-Y02
- using digital speech processing W04-Y03G5

Hearing test S05-D01D2

Heart
- cardiac massage S05-A05A
- defibrillator S05-A01B
- pacemaker S05-A01A
- pump S05-F04
- rate measurement S05-D01B5

Heat
- exchanger X25-L07
- pipe X25-L07
- pump X27-F02B
- sensor S03-A03
- therapy S05-A05B

Heat exchange Q78
- casing Q78-T03
- constructional details Q78-T
- control Q78-T20
- header box Q78-T03
- heat/flow reflector Q78-T03
- maintenance Q78-G
- manufacture Q78-M
- recycling Q78-R
- repair Q78-G
- safety Q78-T20
- sealing arrangement Q78-T04
- tubular elements, pipes Q78-T01
- types of heat exchangers Q78-A
  - combination of contact and indirect contact Q78-A05
  - counter-current Q78-A02C
  - cross-flow Q78-A02B
  - indirect contact Q78-A04
  - multi-pass arrangements Q78-A02D
  - parallel flow Q78-A02A
  - steam or vapor condenser Q78-A01

Heat exchange (application)
- chemical engineering Q78-U25
- food industry Q78-U07
- heating/cooling Q78-U41
- hydraulic engineering Q78-U17
- industrial Q78-U40
- power generation/plant Q78-U16
- refinery Q78-U25
- refrigeration/HVAC Q78-U41A
- sewerage Q78-U17
- vehicle Q78-U03
- water management/treatment Q78-U17

Heat pump system X27-F02B

Heat sink
- electronic appts. (general) V04-T03A
- for semiconductor packages, external, detachable U11-D02B2
- for semiconductor packages, on chip/within package arrangements U11-D02B1

Heat pump system X27-F02B

Heat therapy S05-A05B

Heating
- automatic switching X25-B04
- battery X16-K
- carpet, electrical control X27-E01A3
- carpet, electrically-heated X27-E01A3
- circulating warm air system X27-E01A1
- circulating warm air system, control X27-E01A1
- circulating water system X27-E01A1
- circulating water system, control X27-E01A1
- control T06-B13
- control (unspecified domestic system) X27-E01A
- cushion X27-E09
- electric blanket X27-E02
- electric fan X27-E01A2
- electric field X25-B02X
- electric radiant bar X27-E01A2
- electromagnetic X25-B02
- electron beam X25-B02X
- foot warmer X27-E09
- incinerators X25-W01
- magnetic field X25-B02
- oil-filled radiator, electric X27-E01A2
- pipe frost-damage prevention X27-E09
- resistance - see Electric resistance heating X25-B01
- roof, snow melting X27-E09
- semiconductor devices U11-D02
- solar X27-E01A5
- solid state X25-B02F
- space heating Q74-A02
  X27-E01
- storage X16-L01
  X27-E01A4

storage, control X16-L01 X27-E01A4
stoves and ranges Q74-A01
system X27-E01A
thermoelectric X25-B02F
thermostat V03-C06B X27-E01A
toilet seat X27-L X27-E09
underfloor, electrical control X27-E01A3
underfloor, electrically-heated X27-E01A3
water - see Water heating X27-E03
water, electric X27-E03A
water, non-electric Q74-A02A

Hedge clipper X27-A01A

Height, measuring S02-B02

Helical antenna W02-B01C3
quadrifilar helix (QFH) W02-B01C3A
helical array W02-B05B6

Helical scan recording
brushes for rotary head signal coupling T03-A05D3G
dynamic head position adjuster T03-A05A1A T03-N02 W04-B03B1A
grounding of rotary head drum T03-A05D
head positioning, audio/video W04-E01A
head-tape spacing adjustment T03-A05C1 T03-A05D
magnetic tape per se T03-A01C3A
optical signal coupling for heads T03-A05D3C
recording and recorders (general) T03-N02
RF rotary head signal coupling T03-A05D3E
rotary head drum per se T03-A05D5
rotary head transformer signal coupling T03-A05D3A
signal coupling to heads T03-A05D3
specific head positioning details T03-A05D

Help documentation T01-J11C2

HEMT - see Field effect transistor, with heterostructure U12-D02D2

Herbicides- analysis S03-E14M

Heterojunction bipolar transistor - see Transistors, bipolar, heterojunction U12-D01A2

Heterojunction, semiconductor
deposition U11-C01J6
doping U11-C02J2
structures per se U12-E01B1

Heterostructure MISFET - see Field effect transistor U12-D02A5

Heuristics T01-J16C6

HEVC (High Efficiency Video Coding) W04-P01A4

HF choke V02-F01

HF coil V02-F01G2

HF connector - see Connector

HF inductor V02-F01G2

HF transformer V02-F02

Hierarchical Interconnection Technology V04-Q02B1A V04-T02

High definition multimedia interface (HDMI) W03-G05C3
applications of HDMI W03-G05C3C
novel aspects of HDMI W03-G05C3A

High density interconnect (multichip) U14-H03

High density wiring, IC U11-D03C2

High Efficiency Video Coding (HEVC) W04-P01A4

High electron mobility transistor - see Field effect transistor, with heterostructure U12-D02D2

High frequency amplifier
power U24-G01B5
small signal U24-G01D

High frequency connector V04-M01

High frequency package, for semiconductor device U11-D03A4

High frequency terminals, for semiconductor device U11-D03A6

High pin count packages, for semiconductor device U11-D01A5

High power (electric) connector - see Cable

High power converter - see Converter

High power supply X12-H01C

High power system - see Electric power distribution/transmission system X12-H

High power/voltage/current regulation- see X12-H and X12-J codes

High pressure discharge lamp X26-A01D
construction details – see Discharge lamp X26-A02
control X26-C01B4
electronic ballast X26-C01B2 X26-C01B4
inductive ballast X26-C01B1A X26-C01B4
operating circuit X26-C01B4
starting circuit X26-C01B4

High temp. cell X16-B01C1
sodium-sulphur X16-B01C

High temperature superconductor - see Superconducting material, oxide U14-F01B X12-D06B2

High voltage networks, testing S01-H02

Highlight, colour – printing S06-K01B

Hilbert transform T01-J04B1
computer processing for T01-J04B1

Hiring article using coin or card T05-H05A

HIT V04-Q02B1A V04-T02

Hitless switching
data network W01-A06A1A
digital telephone exchange W01-C02A1C
line communication W02-C01D3A
radio communication W02-G08A

HLR (home location register) W01-E01C1

Hob X27-C
electric X27-C02
gas X27-C05

Hockey (sport) P36-A01
W04-X01K1N
Hoist X25-F05
control T06-D08E
Holder
CRT V04-K09
V05-D08C5
for semiconductor device transport U11-F02A4
fuse V04-K03
X13-D01B
lamp V04-K01
X26-F
semiconductor device for PCB-mounting
U11-D01Q
V04-K02
V04-M05
Hologram V07-F02C
computer memory T01-H01B2
for memories U14-A02B1
manufacture V07-F02C
Holographic
recording heads T03-B12
recording methods T03-B12
Holographic recording T03-B12
Holography V07-M
Home brewing kit X27-B
Home bus system
AV equipment interconnection W03-G05C1
data bus and LAN aspects W01-A06B1
W01-A06B5A
home automation system W05-D07A
networked media storage W03-G05C1A
Home furniture P25
Home location register (HLR) W01-E01C1
Home theater equipment W03-G03H
Homodyne receiver
broadcast radio receiver W03-B01A6
communications receiver W02-G03A8
TV receiver W03-A01B6
Homojunction lasers see Semiconductor lasers
U12-A01B1
Honing X25-A03C2
control T06-D07A
X25-A03C2
X25-A03F
Horse racing and riding P36-A03
W04-X01K3E
Horticulture, agriculture P13-A
cultivation characterized by type of plant
P13-A50
forestry P13-A03
greenhouses P13-A01
new plants and processes P13-B
plant receptacles P13-A02
tools and equipment P13-A04
watering/irrigation P13-A06
Hospital S05-G02
administration system S05-G02G
bathroom equipment S05-G02X
bed, nursing equipment S05-G02B
building aspects Q46-B05B
life support systems S05-G02B3
mobile phone inhibiting system W01-C08F5
nurse call systems S05-G02D
operating theatre equipment, for radiation diagnosis S05-D02A6
operating theatre equipment, not for radiation diagnosis S05-B
S05-G02C
patient beds S05-G02B1
patient monitoring S05-G02B2
patient's medical records S05-G02G1
portable patient monitor S05-G02B2B
remote monitoring of patients S05-G02B2A
respiratory assistance/ventilators S05-G02E
Hot electron bipolar transistor - see Transistor, bipolar, hot electron U12-D01A3
Hot electron transistor, unipolar U12-D02J
Hot standby systems
data network W01-A06A1A
general W02-G08A
line transmission systems W02-C01D3A
telephone exchange W01-C02A1C
Hourglass S04-A09
timer S04-C09
Housing
A/V equipment (general) W03-G01A5
broadcast radio receiver W03-B05A
communications radio receiver W02-G03H
computer T01-L02B
EM shielding in computers T01-L02D
measuring equipment S01-J01
mobile phone W01-C01A3
W01-C01D3C
multiple capacitors V01-B01B7D
PCB mounting in computer T01-L02C
radio communications receiver W02-G03H
radio transceiver W02-G02H
radio transmitter W02-G01H
record carrier protective case T03-L01A
W04-L01A
recording equipment T03-L05A
W04-L05A
semiconductor devices U11-D01
telephone set W01-C01A3
TV receiver W03-A09A1
video camera W04-M01G1A
Housings for fixed capacitor
electrolytic capacitor V01-B01B7
low power capacitor V01-B03D3
Housings, recording T03-L
W04-L
constructional details of appts. T03-L05B
W04-L05B
containers for carriers T03-L01A
W04-L01A
containers for disks T03-L01A1
W04-L01A1
containers for tapes T03-L01A3
W04-L01A3
equipment housings T03-L05A
W04-L05A
storage racks, boxes, cases W04-L01C
storage racks/boxes for disks T03-L01C1
T03-N01
W04-L01C1

storage racks/boxes for tapes T03-L01C3
W04-L01C3

HUD
aircraft W06-B01B3
projection display aspects W04-Q01K
vehicle X22-E07

Hulling grain P41-A07A

Human feature recognition S05-D01C5A
T04-D07X
entry or exit control T05-D01B

Humidity
control T06-B07
measurement, general S03-F09
measurement, nuclear radiation absorption
S03-E06A
measurement, using microwaves S03-E05
switch V03-C06X

Hunting (sport/leisure) P36-A07
W04-X01K7C

HV network, testing S01-H02

HVAC system Q74
X27-E
air circulation Q74-T01
air cleaning/filtering Q74-A02F
air conditioning system Q74-A02B
air curtains Q74-A02G
air humidifying Q74-A02C
air de-humidifying Q74-A02C
burner Q74-T07
casing Q74-T03
compressor Q74-T08
control Q74-T20
X27-E01C
cover Q74-T03
door Q74-T03
evaporator Q74-T08
filter Q74-T09
firebox Q74-T04
fire grate/irons Q74-T04
fixed unit Q74-A02J
fluid heating Q74-A02A
fuel used Q74-A25
biomass fuel Q74-A25D
electrical power Q74-A25E
gaseous fuel Q74-A25C
liquid fuel Q74-A25B
solar power Q74-A25F
solid fuel Q74-A25A
hearth Q74-T04
insulation Q74-T16
maintenance Q74-G
noise suppression Q74-T15
pipe Q74-T02
portable unit Q74-A02H
protection Q74-T20
radiator Q74-T10
recycling Q74-R
repair Q74-G
safety Q74-T20
stoves and ranges Q74-A01
space heating and ventilating Q74-A02
ventilation system Q74-A02E
vibration suppression Q74-T15
water heating Q74-A02A
water tank Q74-T11

HVAC (applications)
commercial Q74-U02
cooking and baking Q74-U10
domestic Q74-U01
X27-E
food industry Q74-U07
industrial Q74-U40
manufacturing plant Q74-U06
vehicle Q74-U03

HVDC system X12-H01D
converter station X12-H01D
X12-J
inverter X12-H01D
X12-J05
rectifier X12-H01D
X12-J04

Hybrid cell X16-A01B
X16-D
electrode X16-E03
X16-E06C
metal-air X16-A01B
X16-D01
metal-halogen X16-D02

Hybrid circuit U14-H03
V04-Q03
array U14-H03
assembling U14-H04B
attaching leads U14-H04B
demounting defective components U14-H04B
high density interconnect U14-H03
holders, sockets U14-H05
manufacture U14-H04B
mounting components on substrate U14-H04B
packages U14-H05
packaging, sealing U14-H04B
U14-H05
screen printing, thick film processing
U14-H04B
substrates, multilayer U14-H03F
terminals U14-H05
testing/measuring U11-F01F
U14-H04B
trimming of thin/thick film components U14-H04A4
Hybrid electronic/optical board
arrangements V04-T04

Hybrid coding scheme, digital transmission
W01-A01B4

Hybrid diversity W02-C03A5

Hybrid energy converters
thermophotovoltaic U12-A02A9
wind-photovoltaic U12-A02A9

Hybrid modulation, digital U23-P01E
W01-A09C

Hybrid power plant
fossil fuels X11-C03
control, monitoring & operation X11-C10
testing X11-C10
non-fossil fuels X15-J
constructional details X15-W
control, monitoring & testing X15-V

Hybrid printed circuit board mfr. (see also PCB mfr.) U14-H04
V04-R05G

Hybrid relay V03-D15

Hybrid signal connector - see Connector
Hybrid synchronous machine V06-M01C
X11-D05
Hybrid vehicle Q19-Q
X21-A01D
X22-P04
hybrid electric Q19-Q01
hybrid mechanical Q19-Q05
parallel hybrid X21-A01D1
X22-P04
series hybrid X21-A01D3
Hybrids, telephone circuit W01-C08B
Hydel X11-B
Hydraulic engineering Q42-A
canals Q42-A01
dams Q42-A02B
dredging Q42-A10
irrigation Q42-A05
Hydrodynamic testing S02-J07
Hydroelectric power plant X11-B
control X11-B10
micro hydro plant X11-B05
mini hydro plant X11-B05
monitoring X11-B10
operation X11-B10
Pelton wheels X11-B01
pumped storage plant X11-B06
testing X11-B10
turbines X11-B01
water wheels X11-B01
Hydrogen storage alloy X15-E05C
Hydrometers S03-F09
Hydrophone S03-C01C1
V06-V04
W02-C07C
circuits V06-V02S
V06-V04
manufacture V06-V03A
V06-V04
testing V06-V03B
V06-V04
transducer types - see Acoustoelectric transducer V06-V01
Hygiene, personal - see Personal hygiene
X27-A02A
Hygrometer S03-F09
Hypertext T01-J11C1

I

i-mode telephone W01-C01G6E
IC - see Integrated circuit
IC card - see Smart card T04-K
V04-Q02A3
IC engine Q51
Q17-E
active noise control/suppression (see also W04-V codes) X22-A12
air driven engine X22-A20G
air filter Q51-H05F
X22-A06
air flow sensor X22-A05D
air-fuel ratio control X22-A03A2A
alcohol fuel type X22-A20E
ambient pressure measurement X22-A05A1
braking Q18-A
X22-A09
Brown's gas fuel type X22-A20X
carburettor Q51-H01A
X22-A02C
catalytic converter Q51-J02B
X22-A07
catalytic converter heater X22-A07
complete management X22-A03F
compressed air type X22-A20G
control X22-A03
cooling Q51-G
X22-A10
cooling fan X22-A10
cooling pump X22-A10
crankshaft angle/position sensor X22-A05C
cylinder Q51-A03A
diesel fuel type Q51-D03
X22-A20C
diesel particulate filter Q51-J02A
distributor X22-A01C1
EGR valve Q51-J02E
X22-A07
electrics X22-A
exhaust braking Q51-J07
X22-A09
exhaust braking control X22-A03B5
exhaust gas cleaning Q51-J02
X22-A07
exhaust gas recirculation control X22-A03A2C
exhaust heat recovery Q51-J02F
X22-A17
exhaust temperature sensor X22-A05F1
exhaust valve Q51-E01
X22-A11
external heating for starting X22-A13
for aircraft propulsion Q25-C02A
for ship propulsion Q24-E02A
for train propulsion Q21-C01C
X23-A01A2
for vehicle Q17-E
X22-A
fuel flow sensor X22-A05D
fuel injection apparatus Q51-H01B
X22-A02A
fuel injection control X22-A03A1
fuel injection quantity control X22-A03A1C
fuel injection timing control X22-A03A1A
fuel pressure regulator X22-A02R
fuel pressure regulation X22-A03A5

fuel pump Q51-H01C
X22-A02D
fuel pump control X22-A03A3
fuel purging X22-A02E
fuel purging control X22-A03A4
fuel supply control X22-A03A
fuel system Q51-H01
X22-A02
fuel system carburettor X22-A02C
fuel system filter Q51-H01F
X22-A02B
fuel system heater X22-A02B
fuel treatment X22-A02
fuel vapour recovery system Q51-H02
X22-A02E
fuzzy logic control T01-J16B
X22-A03K
gas flow sensor - see also flowmeter S02-C01
X22-A05D
gas sensor - see also gas sensor S03-E03
S03-E02
S03-E03
S03-E14P
X22-A05B
heating/warming Q51-L
X22-A13
X22-A15
idling speed control X22-A03B3
ignition Q51-I
X22-A01
ignition advancing, using knock detection
X22-A01B1
ignition cable X22-A01A
ignition circuit breaker X22-A01C2
ignition circuit maker X22-A01C2
ignition coil V02-G01
X22-A01A
ignition coil/spark plug combinations
X22-A01E1G
ignition connector V04-M30C
X22-A01A
X22-X01A
ignition glow plug X22-A01E
ignition glow plug connector V04-M30C
X22-A01E
X22-X01A
ignition noise reduction/spark plug combination X22-A01E1J
ignition pick-up device X22-A01C3
ignition plasma plug X22-A01E
ignition plasma plug connector V04-M30C
X22-A01E
ignition retarding, using knock detection
X22-A01B1
ignition switch (see also V03-C codes) X22-A08
ignition system X22-A01A
ignition testing S02-J01A
X22-A01D
ignition timing control X22-A01B
ignition timing testing S02-J01A
X22-A01D
ignition, advancing X22-A01B2
ignition, automatic disablement X22-A01A5
ignition, cable X12-D03
ignition, noise reduction circuit X22-A01A9
ignition, retarding X22-A01B3
ignition, RF suppression X22-A01A9
ignition, safety X22-A01A7
ignition, using capacitive energy storage
X22-A01A9
ignition, using dynamo-electric generator
X22-A01A1
ignition, using glow plug heating X22-A01A3
ignition, using inductive energy storage
X22-A01A2
ignition, using magneto-electric generator
X22-A01A1
ignition, without energy storage X22-A01A1
immobiliser X22-A08C
implosion engine X22-A20X
inlet valve Q51-E01
X22-A11
inlet/outlet valves' control X22-A03G
intake air heater X22-A15
integrated engine/transmission control
X22-A03F
X22-G01
knock detector S02-F04D3A
X22-A05A
lambda probe S03-E03
X22-A05B
lubricating Q51-F
X22-A09
management by fuzzy control X22-A03K
manufacture Q51-M
measurements X22-A05
multi-fuel proportion measuring X22-A05H
X22-A20A
multi-fuel type X22-A20A
negative pressure measurement S02-F04
X22-A05A4
noise reduction/damping Q51-N
X22-A03X
X22-A12
oil filter Q51-F05
oxyhydrogen dual fuel X22-A20A
piston Q51-A03B
pollution control X22-A03J
power plant X11-C02
power plant, control X11-C10
power/torque control X22-A03D
power/torque control by cutting out cylinders X22-A03D
power/torque control for vehicle traction regulation X22-A03D1
pressure sensor S02-F04
X22-A05A4
reciprocating Q51-A
remote starting (see also W05-D codes)
X22-A08A
rotary Q51-B
rotation sensor S02-G01
X22-A05C
rpm counter S02-G01
X22-A05C
X22-E05
rpm/speed control for cruising X22-A03B1
rpm/speed control for cruising using throttle control X22-A03B1A
rpm/speed control using drive-by-wire system X22-A03B2
rpm/speed control using electronic throttle
X22-A03B2
rpm/speed control using servomotor X22-A03B2
secondary air control X22-A03L
sensor X22-A05

silencing Q51-J01
spark plug X22-A01E1
spark plug electrode X22-A01E1A
spark plug insulator X22-A01E1C
spark plug manufacture X22-A01E1E
spark plug/coil combination X22-A01E1G
spark plug/noise reduction combination X22-A01E1J
speed control X22-A03B
speed control using exhaust braking X22-A03B5
speed sensor X22-A05C
starter X22-A08
starter gear X22-A08
starting Q51-K
starting motor X22-A04
starting relay (see also V03-D codes) X22-A08
starting solenoid (see also V02-E02 codes) X22-A08
stop-start control X22-A03E
supercharger Q51-H05A X22-A14
supercharging control X22-A03C
swirl control Q51-H05E X22-A03I
TDC position sensor X22-A05C
temperature control X22-A03H
temperature sensor S03-B01 X22-A05F3
testing S02-J01A X22-A05
thermostat (see also V03-C06 codes) X22-A10
throttle position sensor X22-A05E
throttle valve Q51-H05C
torque sensor S02-F02 X22-A05G
turbocharger Q51-H05A X22-A14
turbocharging control X22-A03C
two-stroke Q51-A01J X22-A20T
vacuum sensor S02-F04D1 X22-A05A3
variable compression ratio Q51-A01G
vibration control X22-A03X
vibration sensor S02-E X22-A05A

IC engine, electric power generation X11-C02
carbon footprint reduction X11-C08
catalytic converter X11-C08
environmental protection X11-C08
monitoring, operation and control X11-C10
IC engine generator, application X11-U01D

IC engine ignition X22-A01
coil V02-G01 X22-A01A
connector V04-M30C X22-X01A
glow plug connector V04-M30C X22-X01A
testing S02-J01A X22-A01D
timing testing S02-J01A
for aircraft S02-J01A1

IC/chip microprocessor U13-C05

Ice detection S03-D02B
for aircraft W06-B01B5
for non meteorological application S03-D02B1

Ice production, storage and distribution Q75-E

Ice tray X27-F01

Icons
program management, computers T01-J12D

IDC V04-A03 V04-M07

Identification
fingerprint S05-D01C5A T04-D
individual vehicle information T07-A03
of items, using pattern recognition T04-D07C
semiconductor wafer U11-C15A

Identity verification for access control
computer network passwords T01-N02B1B
monitoring physical access of personnel to e.g. building T05-D01
network access ID check W01-A06E1C
secret data communication W01-A05B

IEEE 802.11 radio link W01-A06C4E

IEEE 802.15 radio link W01-A06C4A

IEEE 802.16 radio link W01-A06C4G

IEEE 1394 network W01-A06B5A W03-G05C1

IEEE 1451 (transducers) V06-V01Q

IF amplifier
broadcast radio receiver W03-B02B5
communications receiver W02-G03C5
comms receiver, IF AGC W02-G03D5
television receiver W03-A03B5

IF filter
broadcast radio receiver W03-B02B1
communications receiver W02-G03C1
TV receiver W03-A03B1

IF shift system (interference reduction) W02-G03B2C W02-G03C

IFF system(RF) W06-A04B1

IGBT - see Transistors, bipolar, MOS gated U12-D01A1

IGFET - see Field effect transistor U12-D02A

Igniter X27-G01
piezoelectric V06-V01B V06-V04X

Illumination X26
aircraft W06-B01C X26-U09
clock or watch, mechanical S04-A02X
commercial X26-U05A
display W05-E05 X26-U04A
marine vessel W06-C01C X26-U08
optical fibres-based V07-N03 X26-G
signs W05-E05 X26-U04B
street X26-U06
telephone keyboard W01-C01B8G

vehicle, land X21-F X22-B X26-U07

Image
acquisition, in facsimile S06-K07A4
acquisition, in pattern recognition T04-D02
archiving T01-J05B2A
converter tubes V05-D03
filing T01-J05B2A
intensifier tubes V05-D03
output, in facsimile S06-K04A4C
pick-up element, video camera U13-A01 W04-M01B5
pick-up tubes V05-D01
pick-up, in pattern recognition T04-D02
preprocessing, in pattern recognition T04-D03
recognition per se, in pattern recognition T04-D04
screens for tubes V05-M01
storage, computer processing T01-J10E
transfer, in electrophotography S06-E05

Image converter
complete novel tube V05-D03A
power supplies V05-D03H

Image converter tube
with non-light input V05-D03B1
with optical output V05-D03B

Image generation
3-D image T01-J10C4
composite image formation T01-J10C7
Computer animation T01-J10C5
computer processing T01-J10C
computer tomography T01-J10C4B
curves T01-J10C2
font generation T01-J10C3
lines T01-J10C2
shapes T01-J10C2
television W04-N05C1
text generation T01-J10C3
virtual reality T01-J10C4A

Image intensifier
CRT V05-L05D3
night vision equipment applications W07-G
power supply U24-D V05-D03H
tube, per se V05-D03B5

Image manipulation
computer processing T01-J10B3
television W04-N05C3

Image pick-up tube V05-D02
complete novel tube V05-D02A
manufacture - see Discharge tube mfr. V05-L05D2
tube details V05-D02B

Image preprocessing
pattern recognition T04-D03
video signal W04-P

Image processing
computer, colour processing T01-J10B3B
computer, colour system conversion T01-J10B3B
computer, applications T01-J10G
computer, general T01-J10
computer, image generation T01-J10C
computer, printer S06-K99C
copier S06-K99B
cropping W04-N05C3G
digitisation T01-J10D
enhancement T01-J10B1
facsimile S06-K99D
for film parameter measurement, semiconductor U11-F01B3
image acquisition T01-J10A
image analysis T01-J10B2
image coding T01-J10D
image compression T01-J10D
image data compression T01-J10D
image memory management T01-J10A2
image object enlargement T01-J10B3A
image object reduction T01-J10B3A
image object rotation T01-J10B3A
NMR, medical S05-D02B2
object processing T01-J10B3
recognition T01-J10B2A
still picture S06-K07A4
TV receiver W03-A04 W03-A05 W03-A11
ultrasonic S05-D03E
video camera W04-M01D6
X-ray, medical S05-D02A5E

Image recognition T04-D04
identification of item T04-D07C
biometrics T04-D07F
face T04-D07F1
fingerprint T04-D07F2
semiconductor device patterns U11-F01B3
TV set remote control W03-A02C5J

Image rejection mixer U23-J01
radio communication receiver W02-G03A5A W02-G03B4A
television receiver W03-A01B5A
broadcast radio receiver W03-B01A5A

Image scanning/comparing intruder alarm W05-B01C5A

Image screen mfr. for discharge tube
acid rinsing V05-L02B
application of protective layers V05-L02F
auxiliary material deposition V05-L02C7C
coating processes V05-L02C
control of exposure appts./method V05-L02E8
development V05-L02E7
electrical coating e.g. by electrophoresis V05-L02C5
exposure appts. V05-L02E5
exposure process V05-L02E1
inspection during mfr. V05-L02H1
internal surface metallisation V05-L02F
light source for exposure appts. V05-L02E5C
lighthouse for exposure V05-L02E5
liquid deposition, spraying V05-L02C1
multistep exposure and development V05-L02E1A
optical system for exposure appts V05-L02E5A
protective layer application V05-L02F
substrate preparation V05-L02B
testing during mfr. V05-L02H1
using tube component as mask V05-L02E3
washing V05-L02B

Image sensor
- focal plane array U13-A01X
- for facsimile S06-D05
- hybrid circuits U14-H03G
- lens manufacture U11-C18D, U13-A01F, U13-A02X
- linear U14-H01B
- optical filter U11-C18D, U13-A01F, U13-A02X
- packaging aspects U13-A01D
- photodiode/photoconductor U13-A01A
- phototransistor U13-A01B
- reading circuitry, for facsimile S06-D05A
- static induction transistor U13-A01B1
- video camera application W04-M01B5
- window structures for package U11-D01C1
- IR imager W04-M01E1

Image sensor movement in camera
- for cleaning W04-M01B8C
- for enhanced resolution W04-M01B8A
- for focusing W04-M01B8B

Image signal suppression (superhet receiver) W02-G03B4A

Imagers - see Image sensors U13-A

Imaging
- acoustic S03-E08E
- nuclear S03-E06B, W04-M01F3
- optical, for physical/chemical property investigation S03-E04X
- terahertz, microwave S03-E05E
- ultrasonic S03-E08E

Imaging systems
- analysing tubes V05-F04J

Immersion lithography, for semiconductor mfr. U11-C04K

Immunoassay S03-E09F
- radioactive techniques S03-G02B9

Impact crusher P41-A01J

Impact printer, computer S06-F
- dot matrix S06-F01
- hammer, daisy wheel S06-F02
- ribbon S06-F03

Impact switch V03-C06C

IMPATT diodes U12-C01E

Impedance
- converter U25-C
- human body investigation (based on) S05-D01D1
- measuring S01-D05
- measuring for materials investigation S03-E02D

Impedance matching
- aerial W02-B08E1
- audio transducer W04-T01
- general (lumped constant) circuit U25-D05
- line communication system W02-C01F5
- line driver (logic) U21-C02E
- microwave (distributed constant) circuit W02-A02C
- transmitter output W02-G01E
- waveguide (RF) W02-A02C

Impedance protection X13-C01X

Implantation, ion, for semiconductor doping U11-C02B

Imprint lithography, for semiconductor mfr. U11-C04J
- process methods, control U11-C04J2
- stamp design and mfr. U11-C04J1

Impurity detection - see contamination

In vitro blood analysis S05-C01

In vivo blood composition measurement S05-D01G

Incandescent lamp X26-B
- connection X26-B02A2
- construction X26-B02
- control X26-C02
- dimmer X26-C02C
- end cap X26-B02A1
- envelope X26-B02A1
- filament X26-B02A3
- filament manufacture X26-B03A
- filament mounting X26-B02A2
- filling X26-B02X
- filter X26-B02A1
- getter X26-B02X
- halogen X26-B01A
- halogen, control X26-C02A
- heating X25-B01H, X26-B01B
- heating, control X25-B01H, X25-B04, X26-C02B
- holder V04-K01, X26-F
- internal and integral reflector X26-B02B
- lead wire X26-B02A2
- lead-in conductor X26-B02A2
- manufacture X26-B03
- packaging X26-B03
- seal X26-B02A1
- testing X26-B03
- vessel manufacture X26-B03B

Incinerators X25-W01A

Inclination measurement S02-B03

Inclination switch V03-C06C

Inclinometer S02-B03

Incontinence preventer S05-F02

Incubators for infants S05-G02B3A

Indexing
- information retrieval, data processing T01-J05B1
- recording - see Recording indexing T03-J

Indexing recordings T03-J01, W04-H01

Indicating
- audible S02-K04A
- date S04-A02B
- date, on clock or watch S04-A02B
- direction of movement S02-H
- electrical sensor output conversion (see also Transducers) S02-K03A
- function of variable S02-K01
- general (for instrumentation S01-S03) S02-K

haptic S02-K04D
machine working T05-G02
magnetic sensor output conversion (see also Transducers) S02-K03A
measured values S02-K04
remote (see also Telemetry) S02-K08A
threshold S02-K04G
time S04-A02
time of events T05-G03
transferring/converting sensor output S02-K03
vehicle working T05-G01
visible (e.g. LED/LCD display) S02-K04C
weight S02-D03

Indicating appts.
calibration S02-K07
component parts S02-K06
noise reduction S02-K02D
optical transducers (see also Transducers) S02-K03B
protection S02-K02C
recording elements for S02-K06B
testing S02-K07
using magnetic effects S02-K03A5

Indicia, for recording/indicating appts. S02-K06A

Indium phosphide - see AIII-BV compounds

Inductance
measuring S01-D05A1

Induction
cooker X27-C06
furnace X25-C05
heating X25-B02A
heating inductor, high power X12-C01H X25-B02A1
heating inductor, low power V02-G01F X25-B02A1
relay V03-D05E

Induction machine (asynchronous) V06-M02B X11-E
induction generator X11-E05
non-linear induction machines X11-E
linear induction machines X11-H02A

Induction pump, electrodynamic X11-H03B

Inductive component
communication-type V02-F
constructional details, hf V02-F03
constructional details, power supply V02-G02
hf-type V02-F
power supply V02-G
testing S01-G12E V02-H08 X12-C01D3
testing, transformers S01-G12E1 V02-H08 X12-C01D3
transducers S02-K03A2C

Inductive connectors V02
hf V02-F01P
power supply type V02-G01D

Inductive loop transmission system W02-C02B
educational W02-C02G3
entertainment W02-C02G3
hearing aids W02-C02G3A
selective calling system application W02-C02G5

Inductive output tube V05-C01E

Inductive probe/sensor V02-G01E

Inductive telephone selection systems W01-B05B

Inductive systems W01-B05B

Inductor
casing V02-G02A3
casing, hf V02-F03A3
chip V02-F01L
coil connection, hf V02-F03B
coil connection, power supply V02-G02B
coil/winding insulator, hf V02-F03B1
coil/winding insulator, power supply V02-G02B1
coil/winding manufacture, hf V02-H01A
coil/winding manufacture, power supply V02-H01A
coil/winding, hf V02-F03B
coil/winding, power supply V02-G02B
constructional details, hf V02-F03
constructional details, power supply V02-G02
control V02-F03C V02-G02C
control using current collector V02-G02C
control using current collector, hf V02-F03C
control using movable coil/winding V02-G02C2
control using movable coil/winding, hf V02-F03C2
control using movable core V02-G02C2
control using movable core, hf V02-F03C2
control using movable shield V02-G02C2
control using movable shield, hf V02-F03C2
control using tappings on coil/winding V02-G02C1
control using tappings on coil/winding, hf V02-F03C1
cooling V02-G02A1
cooling, hf V02-F03A1
core V02-G02A2
core, hf V02-F03A2
core manufacture V02-H03E
flat V02-F01N
heating, high power X12-C01H X25-B02A1
heating, low power V02-G01F X25-B02A1
hf, coil V02-F01G2
induction heating X25-B02A1
manufacture V02-H
manufacture, case V02-H07
manufacture, coil/winding V02-H01A
manufacture, core V02-H03E
manufacture, semiconductor devices U11-C05G1C
manufacture, testing V02-H08
manufacture, terminal V02-H06
mounting V02-G02A
mounting, hf V02-F03A
power supply, coil/winding V02-G02B
screen V02-G02D
screen, hf V02-F03D
semiconductor device U12-C03B
shield V02-G02D
shield, hf V02-F03D
terminal V02-G02X
terminal, hf V02-F03X
variable, hf V02-F01D

variable, power supply V02-G01C1
Industrial process control, computers T01-J07
automobile control, multiplexer X22-K
automobile control, transmission X22-G03
data collection/acquisition T01-J07A
manufacture control T01-J07B
multiple sensor data acquisition T01-J07A3
portable data acquisition devices T01-J07A1
process and quality control T01-J07B1
Industrial robot X25-A03E
assembly X25-A03E2
welding X25-A03E1
Inertial navigation S02-B08
W06-A07
Inertia switch V03-C06C
Information network T01-J05B4
T01-J05B4M
Information retrieval T01-J05B
Information retrieval, data processing T01-J05B
content analysis T01-J05B1
Database Management T01-J05B4M
indexing T01-J05B1
searching T01-J05B3
software T01-J05B4
storage T01-J05B2
systems T01-J05B4
Infrared
communication – see **Infrared communication systems**
detector, fire alarm W05-B02B1
detector, light measuring/sensing S03-A01B
heating, cooking X25-B01H1
X27-C02A
heating, industrial X25-B01H3
image sensor W04-M01E1A
infrared laser V08-A04F
infrared lighting X26-Q01
medical therapy S05-A03A1
personal calling arrangements W05-A05B
sensors, semiconductor U12-A02B
signalling arrangements W05-A05B
spectrometry S03-E04A5B
temperature measurement S03-A03
video camera W04-M01E1
Infrared communications systems and equipment W02-C04
data interface, optical fibre W01-A07E
W01-A07H1
data interface, free-space W01-A07H3
dispersion compensation W02-C04A7J
distortion reduction W02-C04A7E
diversity control W02-C04A7G
equalising W02-C04A7A
free space (general) W02-C04B2
IrDA interface W01-A07H3
IrDA LAN W01-A06B5A
W01-A06C3
mobile (general) W02-C04B3
networks, free-space W01-A06C3
networks, optical fibre W01-A06C1
noise reduction W02-C04A7C
optical fibre (general) W02-C04B1
polarisation control W02-C04A7G
receiver W02-C04A3
repeater W02-C04A5
transceiver W02-C04A4
transmitter W02-C04A1
Infusion, medical S05-J
for fluids S05-J01
Injection locking - see Lasers V08-A07A
Ink
chamber S06-G06
ink-jet printer S06-G
thermal transfer printer S06-H02A
Ink transfer elements (for measured values)
S02-K06B2
Ink-jet printer S06-G
application S06-G10
drop deflection, continuous S06-G02
drop-on-demand S06-G01
Inorganic insulator layer formation U11-C05B
Inorganic photoconductive layer S06-E01A2
Input, computer T01-C
input/output bus, access T01-H05B2
Insecticide dispenser X27-X
Inspection
semiconductor U11-F01
using pattern recognition T04-D
Installation
electric cable, communications W01-D03
electric cable, power X12-G04
light guide V07-H03
light guide, fittings V07-H02
Instant picture camera control S06-B08
Instruction execution, program control T01-F03
Instructions T01-F03
Instrument transformer S01-D01D1A
V02-G01B
X12-C01G
Instrumentation
aircraft W06-B01B
manufacture of S01-J03
power supply for S01-J04
ship W06-C01B
vehicle X22-E
Instrument
details S01-J
housing S01-J01
musical W04-U
power supply S01-J04
supports S01-J09
testing, electrical S01-H01
Insulated conductor - see Cable X12-D03
Insulated gate bipolar transistor - see Transistors, bipolar, MOS gated U12-D01A1
Insulated gate FET - see Field effect transistor
U12-D02A
Insulating body X12-E03C
bead X12-E03C
bobbin X12-E03C
bushing X12-E03C
grommet X12-E03C3
nanostructure X12-E03D
sleeve X12-E03C1
tube X12-E03C1

Insulation
- bearings V06-M09
- rotor V06-M07B
- stator V06-M07A

Insulation material X12-E
- asbestos X12-E01B
- asphalt X12-E02A
- bitumen X12-E02A
- cable X12-D03D
- cement X12-E01B
- ceramics X12-E01A
- fibrous material, organic X12-E02X
- gas, inorganic X12-E01B
- gas, organic X12-E02X
- glass X12-E01X
- inorganic X12-E01
- inorganic, nanomaterial X12-E01D
- inorganic, within organic vehicle X12-E01C
- inorganic, for semiconductor mfr. U11-A08A2
- liquid, organic X12-E02A
- metallic oxide X12-E01B
- mica X12-E01B
- natural rubber X12-E02A
- organic X12-E02
- organic, nanomaterial X12-E02D
- organic within inorganic vehicle X12-E02C
- organic, for semiconductor mfr. U11-A08A1
- paper X12-E02X
- pitch X12-E02A
- printed circuit board V04-R07L
  X12-E
- resin X12-E02B
- synthetic polymer X12-E02B
- wax X12-E02B

Insulator X12-E03
- buried layer, semiconductor mfr. U11-C05B9C
- bushing X12-E03C
- calcium fluoride, for semiconductor mfr. U11-C05B7
- composite X12-E03X
- inorganic, materials U11-A08A2
  X12-E01
- inorganic, thin film for semiconductor mfr. U11-C05B
- inorganic, thin film, with nitrogen content U11-C05B5
- inorganic, thin film, without nitrogen content U11-C05B7
- layer formation on AII-BVI substrate U11-C05B8B
- layer formation on AIII-BV substrate U11-C05B8A
- layer formation on AIV elements, compounds substrate U11-C05B8C
- layer formation, semiconductor mfr. U11-C05
- lead-in X12-E03A
- lead-through X12-E03A
- manufacture X12-E04
- organic, materials U11-A08A1
  X12-E02
- organic, thin film for semiconductor mfr. U11-C05A
- passivation layer, semiconductor mfr. U11-C05B9A
- pin X12-E03A
- sidewall spacer, semiconductor mfr. U11-C05B9B
- silcon nitride, for semiconductor mfr. U11-C05B5
- silicon dioxide, for semiconductor mfr. U11-C05B7
- smoothing layer, semiconductor mfr. U11-C05B9A
- supporting X12-E03A
- suspension X12-E03A
- testing S01-G13
  X12-E04
- voltage distribution improvement X12-E03X

Integrated circuit
- automated component / interconnect layout design U11-G02
- circuit simulation/fault finding techniques U11-G03
- clocking/ synchronisation circuits U13-E04
- computer aided design for U11-G01
  T01-J15A

Integrated circuit structures U13-D
- biochip U13-D04B
- bipolar U13-D01
- bipolar and FET U13-D03B
- bipolar and FET, characterised by manufacture U13-D03B2
- bipolar and FET, characterised by novel structure U13-D03B1
- bipolar, with diodes, passive components U13-D01B
- CMOS U13-D02A
- FET U13-D02
- FET with diodes, and/or capacitors and/or resistors U13-D03A
- including Hall device U13-D04
- including SAW device U13-D04
- opto-electronic U13-D04A
- single devices U12-Q
- sperical U13-D06
- tri-dimensional integration U13-D05
- wafer-scale U13-D05
- with semiconductor on insulator (SOI) structure U13-D07

Integrated circuits
- amplifier U24-G04A
- analogue - see Analogue integrated circuits U13-B
- analogue-digital on same chip U13-D08
- application specific - see ASIC U13-C04D
- bare chip mountings U11-D01A9
- biochip U13-D04B
- built-in self test U11-F01D2
  U13-C07
- card type packages U11-D01A7
- ceramic packages (CERDIP, CERQUAD) U11-D01A1
- charge transfer devices - see CCD U13-A02
- chip in tape packages U11-D01A1
  U11-D01A3
- circuit repair U11-C19A
- CMOS U13-D02A
- computer aided design for T01-J15A2
  U11-G
- digital - see digital integrated circuits U13-C
- high density packages U11-D01A6
- high frequency U14-H03H
- high frequency package U11-D01A4
- input/output circuitry U13-E03

isolating components (see Isolation of IC components) U11-C08
logic - see Logic circuits U21-C03A
mountings U11-D01Q
opto-electronic U13-D04A
opto-electronic LED arrays U12-A01A3
opto-electronic, laser arrays U12-A01B1J
V08-A04A
V08-A07
opto-electronic, manufacture U11-C18B4
package inspection U11-F01E
packages, electromagnetic shielding U11-D01C5
packages, resin encapsulated U11-D01A1
packages, short-circuit prevention U11-D01C9
packages, surface mounting U11-D01A3
packages, with special shape terminal pins U11-D03A3
packaging U11-D01A
packaging, assembling U11-E
packaging, attaching leads U11-E01
packaging, carrier tapes U11-D03A1B
packaging, die bonding U11-E02A3
packaging, encapsulation U11-E02A
packaging, flip chip U11-E01C
packaging, gang bonding U11-E01B
packaging, lead frames U11-D03A1A
packaging, resin encapsulation U11-E02A1
packaging, tape automated bonding U11-E01B
packaging, wire bonding U11-E01A
pin grid array packages U11-D01A5
power supply U13-E02
protection (thermal/electrical) U13-E01
radiation hardened U13-D08
radiation sensors/detectors U13-A01
scan testing U13-C07
signature analysis, random pattern generation U11-F01D2B
U13-C07
small outline packages U11-D01A3
structures - see Integrated circuit structures U13-D
substrate biasing U13-E02
TAB packages U11-D01A1
U11-D01A3
testing die packaged device U11-F01C3
testing probes, for die or packaged devices U11-F01C1
testing probes, for wafer level testing U11-F01D1
testing, at wafer level U11-F01D
testing, using electron microscope U11-F01D3
transistor outline, plug type packages U11-D01A9
trimming U11-C19A
U13-C06
wafer scale packages U11-D01A8
wiring details U11-D03C
wiring details, grounding U11-D03C1A

Integrated optical waveguides V07-F01A5
manufacture V07-F01A5A

Integration/differentiation, analogue T02-A04B2

Intelligent power supply U24-D12

Intellectual property T01-J05A2G
T01-N01A2G

Intelligent highway system T07-H

Intelligent relay V03-D20

Intelligent sensor V06-V01Q
V06-V04G

Intelligent transducer V06-V01Q

Intelligent transducer V06-V01Q

Interactive broadcast and entertainment system W02-F10
access control W02-F10N3
archival storage of content primarily submitted by user W02-F10F
billing W02-F10N5
billing based on user-determined level of commercial message provision W02-F10N5A
content recommendation system W02-F10Q3
different-view transmission (interactive TV) W02-F10A1G
file server W02-F10K
financial network access W02-F10J
full video-on-demand W02-F10A1A
game playing W02-F10G
W04-X02
impulse-buy signalling system W02-F10N7
information system access W02-F10E
interactive internet broadcasting W02-F10E3
internet access facility W02-F10E1
IPTV W02-F10A
W02-F10E3
karaoke W02-F10G
W04-X03A3
learning aspects, user profiling W02-F10Q1A
monetary transaction W02-F10J
multimedia systems access W02-F10H
near video-on-demand W02-F10A1C
pay-per-play audio system W02-F10C
profiling user W02-F10Q1
programme guide system W02-F10E5
scrambling aspects W02-F10N1
selective insertion of commercials W02-F10Q
storage system W02-F10K
subscriber equipment W03-A16C5
suggester system W02-F10Q3
TV broadcasting with interactive aspects W02-F10A5
upstream transmission W02-F10N7
user profiling W02-F10Q1
video-on-demand W02-F10A1
video-on-request W02-F10A1E
virtual reality W02-F10G
W04-W07E

Interactive compact disk system W04-C10A

Interchangeable lens, digital/video camera W04-M01C1D

Intercom
entryphone W01-C04A1
general intercom W01-C04A
medical S05-G02D
mine shaft intercom W01-C04A
telephone subscriber equipment W01-C01G1
video entryphone W01-C04A1
W02-F01A1

Interconnection of utility and other local generator X12-H01B

Interconnection of utility and solar power distributed generators X12-H01B1

Interconnection of utility and other distributed generators X12-H01B1
Interconnection of utility and wind power distributed generators X12-H01B1
Interconnection, electronic - see Connector and Direct connection
Interconnection, networks W01-A06G3
Interconnections for semiconductor devices
conductive layer formation U11-C05C
contact hole mfr. U11-C05D3
U11-C05D4
inductive, capacitive arrangements U11-D03C3B
interchip (in hybrid circuits, multichip modules) U14-H03G
interchip (in hybrid circuits, multichip modules) using ceramic dielectric U14-H03F1
interchip (in hybrid circuits, multichip modules) using polymer dielectric U14-H03F2
lateral/vertical U11-C05D3
metallurgical aspects U11-D03B2
multilayer, manufacture U11-C05D2
optical inter-chip connections U11-D03C3B
opto-electronic U11-D03C3B
smoothing interlayer insulating film U11-C05D1
thin film circuit multilayer, metallurgical aspects U11-D03B9
three dimensional U11-D03C3B
to semiconductor device electrodes U11-C05D4
wafer scale, multilayer U11-D03B9
Interface
asynchronous/synchronous, digital computer T01-C07A
backplanes, digital computers T01-C07C
Bluetooth™ data transmission W01-A07H2A
chip carriers, digital computers T01-C07C
computer printer S06-K99C
converters, position T01-C02B
CRT, digital computer output to T01-C04A
data transmission over free space optical interface W01-A07H3
data transmission over radio interface W01-A07H2
data transmission over wired interface W01-A07H1
data transmission, characterised by W01-A07H
display output interface T01-C04
display panel, digital computers T01-C04B
fibre-optic, digital computers T01-C07B
free-space optical data session W01-A07H3
impulse radio W01-A07H2K
joystick T01-C02B1B
keyboard T01-C02A
keyboard, cursor, icons, menu T01-C02A1
keyboard, virtual T01-C02B1D
LAN, digital computers T01-C03A
LED display interface T01-C04C
light pen, digital computers T01-C02B1H
logic circuit details – see
motherboard, digital computers T01-C07C
mouse T01-C02B1A
near field digital transmission W01-A07H2N
network, digital computers T01-C03A
optical fibre data transmission W01-A07E
W01-A07H4
plotter output, digital computers T01-C05B
position digital converters for finger shaped or hand input T01-C02B1J
printer interface T01-C05
printer output, digital computers T01-C05A
radio data transmission W01-A07H2
scanning, digital computer T01-C06
smart card reader, digital computer T01-C07C1
telephone, digital W01-C01R
telephone, line W01-C01L
telephone, subscriber line W01-C01L
interface circuit (SLIC) W01-C02D1
three-dimensional computer input T01-C02B1E
topology, digital computer T01-C07D
touch pen input, digital computer T01-C02B1H
tracker ball T01-C02B1G
TransferJet™ data transmission W01-A07H2N
UWB radio W01-A07H2K
WAN, digital computers T01-C03A
wired data transmission W01-A07H1
near field digital transmission W01-A07H2N
ZigBee digital interface W01-A07H2A
Interface logic circuits U21-C02
differential transmission U21-C02D1
drive circuits - display, relay, etc. U21-C02B
IC termination U21-C02E
inter-family U21-C02A1
logic level shifting U21-C02A5
parallel bus U21-C02C
serial line transmission U21-C02D
tristate U21-C02C
Interfacing
audio tape recorder W04-B12C
audio/video recording equipment W04-K
video tape recorder W04-B10C
video camera W04-M01D8
Interference absorption circuit (IAC) W02-G03B5
Interference and noise suppression in radio receivers W02-G03B
baseband bandwidth control W02-G03B8
cross-modulation reduction W02-G03B4E
IF passband variation W02-G03B2A
IF shift W02-G03B2C
image signal suppression W02-G03B4A
intermodulation reduction W02-G03B4E
multipath reception compensation W02-G03B6
muting W02-G03B1
noise blanker W02-G03B5
offset reduction (DC RX) W02-G03B4G
spurious signal reduction W02-G03B4C
squelch W02-G03B1
thermal noise reduction W02-G03B3
Interference suppression or avoidance at source W02-H
avoidance at radio network planning stage W02-H01J1
avoidance based on radio channel allocation W02-C03E7
W02-H01J5
avoidance based on energy dispersal W02-H01G3
avoidance based on frequency allocation and network operation W02-H01J5
avoidance based on operating frequency selection in equipment W02-H01G5

communications equipment application W02-H01C
non-communications equipment application W02-H01A
suppression based on circuitry or operation W02-H01G
suppression based on constructional features W02-H01E
suppression on supply line, e.g. mains filter W02-H03

Interference, optical for materials investigation S03-E04B5

Interferometers S02-A03A
using optical fibres V07-N01
interleaved memories T01-H03C

Interior permanent magnet motor V06-M01A1
X11-G01

Interleaved memories T01-H03C

Interleaving, data error detection/correction
data transmission aspects W01-A01B5
general aspects U21-A06E

Interleaving error detection/correction U21-A06E
W01-A01B5

Interlock for coin freed appts. T05-H01

Interlocking switch V03-B06A
X13-A03C

Intermediate layer, photoconductor S06-E01B

Intermodulation measurement S01-D08

Intermodulation reduction
amplifier U24-G03D5C
radio receiver W02-G03B4E

Internal combustion engine - see IC engine

Internal ribs mfr., discharge tubes V05-L03A1

International roaming, (cellular / wireless) W01-E01A5

Internet T01-N
architecture T01-M02A1C
novel data transmission aspects W01-A06B7A

Internet applications T01-N
access via telephone network W01-C05B4E
alarm signal transmission W05-B05B5
chat T01-N01B2
data transfer T01-N01D
e-mail T01-N01C
entertainment T01-N01B2
financial T01-NO1A
information retrieval T01-N03A2
interactive broadcasting W02-F10E3
internet radio W02-D05C5
internet radio receiver W03-B06C
measurement or control signal transmission W05-D06E
telephony (VoIP) W01-C05B4C
user applications T01-N03A
Virtual private network (VPN) W01-A06B7G

Internet, control T01-N02B
content management/control T01-N03A1A
monitoring T01-N02B2
security/password T01-N02B
web site management T01-N03B5

Internet, hardware T01-N02A3
servers T01-NO2A3C
set top box T01-N02A3A

Internet/ network communications T01-N02A
communication protocol T01-N02A1
network communication T01-N02A2

Internet protocol (IP) W01-A06F2A

Internet portal T01-N02B1H

Internet Gateway T01-N02B1G

Interpolation, extrapolation, analogue T02-A04B5

Interrogation system W02-G05B

Interrupt programming T01-F02

Intranet W01-A06B7
architecture T01-M02A1C

Intravenous fluid delivery monitoring S05-J01A

Intruder alarms W05-B01
CCTV W02-F01A5
W05-B01C5C
electric/magnetic field disturbance actuation W05-B01A1
false alarm prevention W05-B01
W05-C02C5
image scanning/comparing W05-B01C5A
mechanical actuation of W05-B01B1
motion detection W05-B01C5A
optical actuation W05-B01C2A
passive intrusion detection W05-B01E
ultrasonic actuation W05-B01C1A

Inventory management X25-F09

Inverter - see Converter, DC-AC

Inverters (logic) U21-C03A3

Ion
microscope V05-F01A2
pump V05-K

Ion beam deposition

Ion beam lithography, for semiconductor mfr. U11-C04G
masks, semiconductor mfr. U11-C04G2
method, apparatus U11-C04G1

Ion beam tube
general/high power V05-E05
specimen analysing - see Analysis tube V05-F01
workpiece processing - see Processing tube V05-F05A7C

Ion diffraction tube - see Analysing tube V05-F01A2

Ion exchange S03-E09B

Ion exchange chromatography S03-E09C5

Ion implantation equipment V05-F05A7C
V05-F08D3
charge-up prevention V05-F04X
V05-F05E3
cleaning V05-F05E9
control V05-F05E5A
cooling of workpiece or appts. V05-F04K
V05-F05E3
flood effect beam V05-F05A5

focussed beam V05-F05A1
ion source V05-F04A5
V05-F05E3
ion-optics for species selection V05-F04C7
V05-F05E3
maintenance V05-F05E9
metallurgical treatment application X25-Q02
monitoring V05-F05E5A
power supplies V05-F05E5
semiconductor device mfr. doping application U11-C02B1
testing V05-F05E5A
vacuum lock V05-F04D3
V05-F05E3
vessel V05-F04D1
V05-F05E3
workpiece holder V05-F04G
V05-F05E3
workpiece introduction system V05-F04D3A
V05-F05E3

Ion implantation for semiconductor device mfr. U11-C02B
appts. for doping U11-C02B1
ROM programming U14-A06B5
techniques for doping U11-C02B2

Ion sensor FET - see Field effect transistor U12-D02A

Ion source, microscope with gas supply V05-F04A5A

Ion-optical arrangements
analysing/processing tubes V05-F04C
discharge tubes (general) V05-M04
mass spectrometer V05-J01G
energy spectrometer V05-J01G

Ionisation chambers S03-G02B2C
materials investigation S03-E10
smoke detector W05-B02A3

Ioniser X12-F03
X27-E01B2

Ionospheric scatter radio communication W02-C03X

Ionospheric sounding S03-D09

Iontophoresis S05-A04A
S05-J02
Infrared S05-A03A1
ultraviolet S05-A03A3

IP-based telephony W01-C05B4C

IPTV
broadcast system W02-F10A
W02-F10E3
receiver W03-16C5A
W03-A16C5K

IR and UV (see also Infrared or Ultraviolet)
digital mark reading T04-A03B
digital marking T04-A02B
medical therapy S05-A03A
surgery S05-B01

IR reflow soldering X24-A02E

IR video camera W04-M01E1
pick-up device W04-M01E1A

IrDA (Infrared data association)
IrDA interface W01-A07H3
IrDA LAN W01-A06B5A
W01-A06C3

Iron - see metallurgy

Iron, electric X27-D03
domestic clothes iron X27-D03
trouser press X27-D09
wallpaper stripping iron X27-X

ISDN W01-C05B7
architecture W01-C05B7C
broadband (B-ISDN) W01-C05B7E
control W01-C05B7D
data network connection aspects W01-A06B5C
exchange W01-C05B7B
facsimile interface S06-K07C2C
POTS / ISDN splitter W01-C01L5
signalling W01-C05B7C
subscriber equipment W01-C05B7A
subscriber equipment interface W01-C01L1
W01-C05B7A

ISFETs S03-E03C
U12-D02A

Isolation of IC components U11-C08
dielectric isolation U11-C08A4
dielectric trench U11-C08A3
LOCOS method U11-C08A2
non-silicon semiconductor U11-C08B
on AII-BVI compound substrate U11-C08B2
on AIII-BV compound substrate U11-C08B1
on AIV compound substrate U11-C08B3
polysilicon trench U11-C08A3
proton bombardment, method U11-C08A5
recrystallisation U11-C03J1
U11-C08C
sacrificial substrate U11-C08A4
SOI U11-C08A6
three-dimensional structures U11-C08C
trench isolation U11-C08A3

Isolator X13-B01

Isolator for microwave signals W02-A04E

Issuing ticket and receipt T05-C01

IT (Instrument transformer) V02-G01B
X12-C01G

J

J-leads U11-D03A3
Jacuzzi TM X27-A02A4
X27-E03A1
Jam clearing in photocopier document/paper feed path S06-K02B
Jamming
communications W02-L01A
GPS signals W06-A03A5M
jamming signal insertion for subscription TV W02-F05A1A
mobile phone inhibiting in sensitive area W01-C08F5
radar systems W06-A04E1A
Javelin throwing (sport) P36-A03
W04-X01K3A
Jaw crusher P41-A01A
JET X14-A03
Jewels
optical examination S03-E04F3
personal articles, electrical details X27-A02B2
personal articles, non-electrical details P23-C
JFET - see Field effect transistor U12-D02B
Jigs, semiconductor wafer handling inside processing appts. U11-F02A2
Jog wheel for VTR W04-B10A
W04-B10C
W04-J05
Josephson junction
manufacture U11-C18B9
pulse generator U22-A02X
Josephson junction - see Superconducting devices U14-F02B
Joystick for computer input T04-F02B3
electromechanical switch aspects V03-C03A
interface T01-C02B1B
JPEG image coding W04-P01A3
Juke box
CD system W04-C10A5
entertainment system W04-X03A1
Jumper cable for vehicle battery charging X16-F05
X22-F01A1
Junction box
ceiling rose V04-B05
V04-M02
high power X12-G04B
X13-E02
low power V04-B09
low power, communication-type W01-D03

K

Kalman filter U22-G01A1B
Karaoke W04-X03A3
centralised distribution system W02-F10G
W04-X03A3
in television W03-A16C5G
transducer details V06-V04R
Karmann flowmeters S02-C01A9
KBE, control system T01-J16C
T06-A05A
Kettle, electric X27-B01
Key switch V03-C05
Key telephone set W01-C01G3
Key telephone system W01-C02G5C
Keyboard
circuitry, computer input type T04-F01A
construction, computer input type T04-F01B
external, telephone W01-C01B8N
interface T01-C02A
key coding T04-F01A5
key scanning T04-F01A1
membrane type switches V03-C01A2A
musical instruments W04-U04A
switches V03-C01A2
telephone W01-C01B8
telephone, external W01-C01B8N
typewriter keyboard S06-K07A1
virtual, interface T01-C02B1D
Keypad T04-F01
see keyboards above
Keystone correction, image W04-N05C3E
video camera-based W04-M01D6
W04-N05C3E
video projector-based W04-N05C3E
W04-Q01J
Kiln – see Furnaces Q77
Kitchen appliance X27-B
coffee X27-B01
cookware P28-A02
cooker - see Cooker X27-C
cooker hood X27-B05
drinks cooler X27-B09
drinks heater X27-B09
electric fryer X27-C03A
electric griddle X27-C03C
electric grill X27-C03B
food/beverages preparation P28-A01
food mixer/processor X27-B03
food serving trolley X27-B09
food thermometer X27-C09
food warmer X27-B09
intelligent refrigerator X27-F05
juicer X27-B03
kettle, electric X27-B01
kitchen storage P28-A03
knife X27-B04
knife sharpener X27-B04
other kitchen appliances X27-B09
oven - see Oven X27-C
oven toaster X27-C03B
ovenware P28-A02
sandwich maker X27-C03C
steak griddle X27-C03C

tea machine X27-B01
tin opener X27-B04
toaster, pop-up X27-B02
with secondary built-in function X27-X03

Klystron V05-C01C
amplifiers using U24-G04D
manufacture V05-L05C
tube details V05-C01C1

Knife sharpener X27-B04

Knitting machine X25-T04B2
control T06-D03C
X25-T04B2

Knob switch V03-C02A
X13-A04C1

Knock detector S02-F04D3A
vehicle engine X22-A05A2

Knowledge processing T01-J16C

Knowledge-base control system T06-A05A

L

Labelling
record carriers T03-H02A1A
record carrier IC T03-H02A3
semiconductor wafer U11-C15A
goods labelling X25-F03A8
goods tagging X25-F03A8

Lab-on-chip S03-H01

Ladder filter U25-B

Ladders Q46-A03A

Language, Scripting T01-N03B3

Lambda Probe S03-E03B1

Laminating,
magnetic record carrier mfr. T03-A02B9
for copier/printer S06-K05

Lamp
arc X26-A01A
control activated by body detector X26-C03E
current/voltage control, general X26-C03A1
dentistry S05-E02
dielectric barrier discharge X26-A01C
discharge X26-A01A
discharge, construction - see Discharge lamp X26-A02
discharge, high pressure X26-A01D
discharge, low pressure X26-A01E
electrodeless X26-A01B
electrodeless, operating circuit X26-C01B3
electrodeless, starter X26-C01B3
electroluminescent U14-J
X26-J
electron-stream X26-A01A
electrophotography S06-D03
S06-E03B
emergency lighting X26-E02C
external-electrode X26-A01A
fitting/fixture – see Light X26-D
floor lamp X26-E02B
fluorescent X26-A01E1
gobo (goes before optics) X26-D01D
holder V04-K01
X26-F
incandescent X26-B
incandescent, construction - see Incandescent lamp X26-B02
infrared X26-Q01
intensity control, discharge X26-C01C
intensity control, general X26-C03A5
intensity control, incandescent X26-C02
IR X26-Q01
laser V08-A
X26-N
LED U12-A01A
X26-H
LED, P-N junctions details X26-H01
LED, semiconductor structures X26-H01
LED, constructional details X26-H02
LED, control X26-H03C
LED, circuit X26-H03A
U12-A01A5
LED, IR X26-Q01
X26-H
LED, organic U14-J
X26-J

microwave X26-A01B
microwave, plasma X26-A01B1
multi-discharge path X26-A01A
night light X26-E02D
non-visible output X26-Q
on-off switching, general X26-C03E
packaging X26-A03
X26-B03
plasma X26-A01B1
phosphor recovery X26-A03
post X26-X
remote-controlled switching X26-C03C
shade X26-P
sulphur lamp X26-A01B
supporting/suspending arrangement X26-R
socket V04-K01
X26-F
table lamp X26-E02A
testing X26-A03
X26-B03
Tungsten lamp X26-B01A
ultraviolet X26-Q03
UV X26-Q03
vehicle headlamp X22-B01
X26-U07
Xenon lamp X26-A01A

Lamp ballast
choke V02-G01C
X26-C01B1C
electronic X26-C01B2
transformer V02-G01A
X26-C01B1C

Lamp holder V04-K01
X26-F

Lamp starter switch X26-C01B1

LAN T01-N02A2A
W01-A06B5A
intra-vehicle X22-K03

Langmuir Blodgett, semiconductor layer deposition U11-C01F

Language script coding U21-A05D1

Language translation by computer T01-J14

Lap time measuring S04-C03C2
T05-G03
W04-X01C1A

Laparoscope S05-D04

Lapping X25-A03C2
control T06-D07A
X25-A03C2
X25-A03F
semiconductor wafers U11-C06A1A

Laptop computer T01-M06A1

Large scale data networks (e.g. WAN)
T01-N02A2B
W01-A06B5B

Large scale integration - see also integrated circuits U13-C06

Laser
active medium material V08-A01D
amplitude stabilisation V08-A03A1
arrays V08-A07
assembly V08-A07
beam intensity control V08-A03A
chemical V08-A04B
connections, optical fibre U12-A01C
V07-G10C
construction/shape details V08-A01
construction/shape of optical resonator
U12-A01B1
V08-A01A
control -see Laser control V08-A03
cooling V08-A05
cutting X24-D03
diode, pumped - see Laser pumping, optical
V08-A02B
diodes - see Semiconductor lasers U12-A01B
V08-A04A
doped insulator V08-A04C
dye V08-A04D
electrodes V08-A01B
excimer V08-A04B
fibre-optic V08-A04C2
free electron V08-A04E
gas V08-A04B
gas management system V08-A01C
Infrared lasers and UV lasers, non visible light sources
V08-A04F
injection locking V08-A07A
lighting V08-A
X26-N
liquid type V08-A04D
Master Oscillator Power Amplifier (MOPA)
V08-A07A
measurements V08-A06
measurements for feedback control V08-A06A
medical therapy S05-A03A2
metal vapour V08-A04B
mode locking V08-A03B
Nd:YAG V08-A04C
optical cavity V08-A01A
optical fibre V08-A04C2
optical resonator V08-A01A
optical resonator, external V08-A01A3
optical resonators, with nonlinear element
V08-A01A2
optical resonators, with passive optical components (diffraction grating) V08-A01A2
oscillator for clock/watch S04-B02X
phase control V08-A03
power control V08-A03A
power meter S03-A01B
preparing active medium V08-A01D1
printer S06-E
protection equipment V08-A10
pumping - see Laser pumping V08-A02
Q-switching V08-A03D
radiation protection V08-A10
Raman V08-A04X
reflow soldering X24-A02E
X24-D03
ring-type V08-A01A1
ruby V08-A04C
scattering effects V08-A04X
semiconductor - see Semiconductor lasers
U12-A01B
solid state V08-A04C
solid state, diode pumped V08-A04C1
surgery S05-B01
testing V08-A06
types V08-A04
X-ray V08-B02

Laser beam
- cutting - see Welding, laser beam X24-D03
- parameter correction outside resonator V08-A08
- welding - see Welding, laser beam X24-D03

Laser control V08-A03
- beam intensity V08-A03A
- frequency V08-A03C
- frequency multiplying V08-A03C1
- frequency stabilisation V08-A03C2
- measurements for feedback control V08-A06A
- mode V08-A03B
- mode locking V08-A03B
- phase V08-A03
- Q-switching V08-A03D

Laser printer S06-E
- lens, mirror, optics S06-E03B
- light source S06-E03A
- optical system drive S06-E03C
- photosensitive paper S06-E01
- printhead S06-E03A

Laser pumping V08-A02
- chemical V08-A02
- for gas laser V08-A02C
- optical V08-A02B
- optical, using flash lamps V08-A02B
- semiconductor laser bias V08-A02A
- thermal V08-A02
- using electron beam V08-A02

Laser radar – see optical radar W06-A06

Laser treatment
- for semiconductor mfr. U11-C03D
- for semiconductor mfr. apparatus. U11-C09G
- laser therapy S05-A03A2
- semiconductor laser testing U11-F01C5

Lateral/vertical collector bipolar transistors U12-D01A9

Lathe X25-A03A
- control T06-D07C, X25-A03A, X25-A03F
  - for metal working T06-D05A

Laundry drier X27-D02
- clothes line X27-D02L
- combined washer-drier X27-D01C
- electric vented tumble X27-D02A1
- gas vented tumble X27-D02A2
- heat pump tumble X27-D02A3
- condensing tumble X27-D02A4
- microwave tumble X27-D02A5
- non-tumble X27-D02A6

Laundry drier X27-D02
- component parts X27-D02B
  - air moving systems X27-D02B4
  - casings X27-D02B5
  - dispensing systems X27-D02B6
  - drive arrangements X27-D02B2
  - heating systems X27-D02B3
  - lint management systems X27-D02B8
  - providing mechanical energy X27-D02B1
  - vibration damping systems X27-D02B7
- control systems X27-D02C

Lawn mower X27-A01A

Layer arrangements
- magnetic record carriers T03-A01F
- magneto-optical record carriers T03-D01A
- multilayer capacitors V01-B03C3A
- optical record carriers T03-B01

Layered products P73
- application P73-U
- characterised by shape P73-A01
- characterised by structure P73-A02
- method, apparatus for producing P73-N
- relationship between layers P73-A03
- types of layer materials P73-V

LC resonant circuit (single) U25-E05B1

LCD U14-K01
- alignment layers U14-K01A1A
- back-lighting T04-H03D, U14-K01A4C, X26-U04A1
- cells U14-K01A
- circuits, drivers U14-K01A3
- clock or watch S04-B04
- control aspects T04-H03C2
- control, TV receiver W03-A08B3
- control, VDU T04-H03C2
- electrodes U14-K01A1B
- filters U14-K01A1C
- glass substrate U14-K01A5
- integral with photoconducting layer U14-K01A2D
- manufacture (for thin film driving semiconductor circuitry see U14-K01A2) U14-K01A1J
- manufacturing apparatus U14-K01A1K
- module details U14-K01A4A
- mountings/connectors U14-K01A4B
- optical components U14-K01A1C
- plasma-addressed display U14-K01A2C
- polarisers U14-K01A1C
- projection TV W04-Q01B
- repair U11-C19A, U14-K01A1J
- spacers U14-K01A1D
- television receiver W03-A08B
- testing S02-J04A3A, U14-K01A8
- testing, matrix array U11-F01F, U14-K01
- thin film arrays U14-H01A
- thin film transparent conductive layers U14-H01E, U14-K01A1B
- transparent conductive layers U14-K01A1B, X12-D02A1
- video projector W04-Q01B
- with dynamic scattering U14-K01A1G
- with guest-host effect U14-K01A1G
- with MIM switching elements U14-K01A2A
- with thin film transistor switching elements U14-K01A2B

Lead acid accumulator X16-B01B

Lead frames for semiconductor packages U11-D03A1A
- connections to chip terminals U11-D03A2
- materials U11-A08B, U11-D03B
- mounting chip onto (die bonding) U11-E02A3

transport U11-D03A1A
U11-F02A

Lead-in conductor
cathode ray tube V05-D07B1
discharge lamp X26-A02A1
incandescent lamp X26-B02A2
manufacture, dishcharge tubes V05-L03A5
transit-time tubes V05-C02B3

Lead manufacture, electrolytic capacitors V01-B01G5

Leader for magnetic tape T03-A01H

Leadless capacitors - see Capacitor V01-B03C5

Leadless mounting, semiconductor package
U11-D01A3

Leadless resistor - see Resistor V01-A02D

Leads for semiconductor devices U11-E
attaching U11-E01
cutting U11-E02B1
deburring, cleaning U11-E02B3
gang bonding U11-E01B
high frequency package U11-D03A6
high power diode/transistor/thyristor U11-D03A5
hybrid circuit package U14-H05
hybrid circuit, lead attaching U14-H05
U14-H04B
inspection U11-F01E
low/medium power diode/transistor/thyristor U11-D03A4
metal/alloy composition U11-A08B
shape, J-lead, gull-wing U11-D03A3
shaping, forming U11-E02B1
wire bonding U11-E01A

Leakage detection S02-J06
acoustic/ultrasonic S02-J06A3
detecting leakage fluid S02-J06A
electrically detecting leakage fluid S02-J06A1
immersion testing S02-J06A9
measuring fluid loss/gain rate S02-J06B
optically detecting leakage fluid S02-J06A7
using pressure drop S02-J06B
using tracer to detect leakage fluid S02-J06A5

Leakage testing, electrical S01-G04A5
with preset threshold S01-G04A5A

Leather
analysis of material S03-E14D7
footwear, manufacture X27-A02B1B
working/cutting X25-X07

LED
arrays, drive circuitry U12-A01A5B
arrays, hybrid or monolithic U12-A01A3
circuit, for lighting X26-H03A
connection to optical fibre U12-A01C
V07-G10C
control, for lighting X26-H03C
display, clock or watch S04-B04
display, control of T04-H03C1
display, drive circuitry T04-H03C1A
doping for U11-C02J7
U12-A01A2
drive circuitry U12-A01A5
drive circuitry for individual LED U12-A01A5A
germanium U12-A01A1D
illumination X26-H
illumination, constructional details X26-H02
illumination, details of P-N junctions X26-H01
illumination circuit X26-H03A
illumination control X26-H03C
indirect bandgap semiconductor U12-A01A1D
lighting X26-H
lighting, details of P-N junctions X26-H01
lighting circuit X26-H03A
lighting, constructional details X26-H02
lighting control X26-H03C
manufacture U12-A01A2
manufacture U11-C18B4
organic/polymeric U12-A01A1X
U14-J
X26-J
package U12-A01A4
package for white light LED U12-A01A4A
printhead S06-E03A
silicon U12-A01A1D
structure U12-A01A1
structure, with AII-BIV compounds U12-A01A1B
structure, with AIII-BV compounds U12-A01A1A
structure, with AIV elements and their compounds U12-A01A1C

Legal and Regulatory
data processing T01-J05A2L
on-line systems T01-N01A2L

Leisure activities P36-A
W04-X01K
air sports P36-A03
W04-X01K3N
American football P36-A01
W04-X01K1R
angling P36-A07
W04-X01K7A
athletics P36-A03
W04-X01K3A
archery P36-A05
W04-X01K5A
ball-based play P36-A01
W04-X01K1
badminton P36-A01
W04-X01K1P
baseball P36-A01
W04-X01K1A
basketball P36-A01
W04-X01K1C
beach volleyball P36-A01
W04-X01K1V
billiards P36-A01
W04-X01K1E
boxing P36-A04
W04-X01K4A
clay pigeon shooting P36-A05
W04-X01K5E
combat-based sports P36-A04
W04-X01K4
cricket P36-A01
W04-X01K1G
cycling P36-A03
W04-X01K3C
darts P36-A05
W04-X01K5C
fencing P36-A04
W04-X01K4C
fishing P36-A07
W04-X01K7A

golf P36-A01 W04-X01K1L
gliding P36-A03 W04-X01K3N
hang gliding P36-A03 W04-X01K3N
hockey P36-A01 W04-X01K1N
horse racing and riding P36-A03 W04-X01K3E
hunting P36-A07 W04-X01K7C
ice hockey P36-A01 W04-X01K1N
jogging P36-A03 W04-X01K3A
laser-simulated shooting P36-A04 W04-X01K4E
martial arts P36-A04 W04-X01K4A
motor racing P36-A03 W04-X01K3G
paintball P36-A04 W04-X01K4E
parachuting P36-A03 W04-X01K3N
parascending P36-A03 W04-X01K3N
pool (indoor game) P36-A01 W04-X01K1E
power boat racing P36-A03 W04-X01K3L
racquet sports P36-A01 W04-X01K1P
rugby P36-A01 W04-X01K1R
running P36-A03 W04-X01K3A
sailing P36-A03 W04-X01K3L
snooker P36-A01 W04-X01K1E
shooting P36-A05 W04-X01K5E
shuttlecock-based play P36-A01 W04-X01K1P
surfing P36-A03 W04-X01K3L
swimming P36-A03 W04-X01K3J
table tennis P36-A01 W04-X01K1T
tennis P36-A01 W04-X01K1P
volleyball P36-A01 W04-X01K1V
water skiing P36-A03 W04-X01K3L
wind surfing P36-A03 W04-X01K3L
wrestling P36-A04 W04-X01K4G

Lenard tube V05-J05

Length measurement S02-A10B
using electrical/magnetic method S02-A02 S02-A10B
using mechanical method S02-A01 S02-A10B
using optical measurement S02-A03 S02-A10B
using sound or ultrasound S02-A05B S02-A10B

Lens
antenna (RF) W02-B03A
copier, exposure S06-D03
copier, positioning for magnification changes S06-D10A
detachable lens, digital/video camera W04-M01C1D
electron/ion, (general) V05-M04
electron/ion, lens manufacture V05-L01B4
interchangeable lens, digital/video camera W04-M01C1D
ion-optical for mass/energy spectrometer V05-J01G
laser printer S06-E03B
liquid crystal (variable), camera W04-M01C1E
manufacture, for semiconductor device, LCD U11-C18D
manufacture, optical P81-A01 P81-M
optical lens (novel) P81-A01 V07-F02A
positioning, in photographic camera S06-B01B1
positioning, video camera W04-M01C1
television/video camera W04-M01C1A
testing S02-J04A5
variable power, video camera W04-M01C1E

Level
control T06-B05
inclination measuring S02-B03
spirit S02-B03
surveyors S02-B02
switch V03-C06X

Level indicating S02-C06
by measuring pressure/weight S02-C06B
electrical sensor S02-C06C
electrical, capacitive system S02-C06C3
electrical, resistive system S02-C06C1
electrical, resistive system combined with heater S02-C06C1A
float, non-electric system S02-C06A5
float, operating switch S02-C06A1A
float, operating transducer S02-C06A1B
other electrical e.g. inductive S02-C06C9
other types e.g. dipstick S02-C06X
printer agent store S06-K07B1
using float S02-C06A
using optical frequencies (em) S02-C06D1 W06-A06D1
using other wave propagation effects S02-C06D9
using radio frequencies (em) S02-C06D5 W06-A04A1
using sonic/ultrasonic radiation S02-C06D3 W06-A05D1
using wave propagation effects S02-C06D

Lever switch V03-C02B

Library automation T01-J05B9

Library recording/reproducing systems T03-Q
control system T03-Q07B
disk T03-Q05
loading mechanism and drive T03-Q07A
magnetic disk T03-Q05A
magneto-optical disk T03-Q05E
optical disk T03-Q05C
tape T03-Q01
Lidar – see optical radar W06-A06
Life saving, general P35-A
chutes P35-A01E
cushioning devices P35-A01G
hoists P35-A01A
lifting equipment P35-A01A
slides P35-A01E
soft-landing equipment P35-A01G
Life saving in water Q24-X01
Life test, for integrated circuits U11-F01C3
U11-F01G
Lifebuoy Q24-X01A
Lift X25-F04
control T06-D08D
X25-F04A
door X25-F04
X25-U01
goods lift X25-F04
mining X25-D02A
ski lift X25-F05
switch, floor-levelling V03-B01A
Lift-off masking, semiconductor U11-C04D1
Lifting equipment X25-F05
boat hoist Q24-R02
for aircraft cargo Q25-B02C
for ship cargo Q24-B02C
for train cargo Q21-J06
Light(ing)
amplifier - see Optical amplifier V07-K01C
amplitude modulation using shutters
V07-K01B
barriers S03-C08
combustible used
gas Q71-A50B
kerosene Q71-A50C
oil Q71-A50A
wax Q71-A50X
container for combustible material Q71-T04
control - see Optical modulation V07-K
cooling Q71-T9
X26-D02
circuits, PCBs V04-Q30U
decorative W04-X03C
X26-M
deflection control V07-K05
deuterium arc lamp X26-A01E
electroluminescent lighting device X26-J
U14-J
emergency lighting X26-E02C
fitting/fixture X26-D
fixture, cooling X26-D02
fixture, diffuser X26-D01E
Q71-T03
fitting/fixture, diffuser for display X26-D01E1
fitting/fixture, filter X26-D01C
Q71-T03
fitting/fixture, guide X26-D01F
Q71-T03
fitting/fixture, guide for display X26-D01F
fitting/fixture, housing X26-D03
fitting/fixture, lens X26-D01B
fitting/fixture, polariser X26-D01G
Q71-T03
fitting/fixture, reflector X26-D01A
Q71-T02
fitting/fixture, refractor X26-D01B
Q71-T02
fitting/fixture, screen X26-D01D
Q71-T03
flashlight X26-E01A
floor lamp X26-E02B
fluorescent lamp – see Fluorescent lamp
X26-A01E1
frequency control V07-K04
globe Q71-T01
gobo (goes before optics) X26-D01D
ignition of combustible Q71-T06
incandescent lighting Q71-A02A
infrared lighting X26-Q01
intensity control (see also Optical modulation) T06-B07
V07-K01
laser source W02-C04B1A
LED X26-H
LED, circuits X26-H03A
LED, control X26-H03C
LED, constructional details X26-H02
LED, P-N junctions details X26-H01
LED, semiconductor structures X26-H01
luminescent lighting Q71-A02B
maintenance Q71-G
manufacture Q71-M
measuring S03-A
medical therapy S05-A03A
S05-A03A9
meter, in photography S06-B02A
modulation - see Optical modulation V07-K
night light X26-E02D
novelty W04-X03C
X26-M
optical-fibre based V07-N03
X26-G
ornamental W04-X03C
X26-M
phase control V07-K02
polarisation control V07-K03
portable X26-E
portable, battery-powered X26-E01
portable, flashlight X26-E01A
portable, floor lamp X26-E02B
portable, key ring-mounted X26-E01D
portable, lantern X26-E01B
portable, mains-powered X26-E02
portable, mains-powered emergency X26-E02C
portable, mains-powered night light X26-E02D
portable, penlight X26-E01C
portable, solar-powered X26-E01E
portable, table lamp X26-E02A
portable, torch X26-E01A
portable, torch using LEDs X26-E01A1
portable, wearable X26-E01F
printed circuits V04-Q30U
protection Q71-T07
recycling of lighting components Q71-R

repair Q71-G
safety Q71-T07
shade X26-P
Q71-T01
simulation (teaching equipment) X26-U99
special effects W04-X03C
X26-M
stage X26-K
sulphur lamp X26-A01B
supporting/suspending arrangement X26-R
table lamp X26-E02A
theatre X26-K
transmission systems W02-C04
transmitter, receiver, semiconductor U12-A02C3
Tungsten lamp X26-B01A
ultraviolet lighting X26-Q03
Xenon lamp X26-A01A

Light(ing), applications
application X26-U
aquarium X26-U99
X27-H01
aircraft W06-B01C2
W06-B01C5
X26-U09
camera X26-U11
camera - digital X26-U11A
camera – film-based X26-U11B
clothes X26-U99
X27-A02B1
cosmetic X26-U01
curing/heating/sterilisation X26-U03
displays X26-U04A
back-lighting X26-U04A1
edge-lighting X26-U04A2
floor lamp Q71-U35
garden lighting X26-U05B
X27-A01
general lighting X26-U05
general lighting for commercial use X26-U05A
general lighting for domestic use X26-U05B
handbag/rugsack X26-U99
X27-A02B
heating/curing/sterilisation X26-U03
indoors, general lighting Q71-U45C
insect repellent lighting Q71-U37
keys X26-U99
lanterns Q71-U33
lighters Q71-U34
marine vessels W06-C01C
X26-U08
medical X26-U02
S05-A03A
Q71-U13
outdoors, general lighting Q71-U45A
parasol X26-U99
X27-A01B
refrigerator X26-U05B
X27-F02C2
reptile house X26-U99
X27-H01
road sign X26-U06
scented lighting Q71-U37
screwdriver X26-U99
sewing machine X26-U99
X25-T04C
signs X26-U04B
space craft W06-B03X
X26-U09
stage X26-K
sterilisation/heating/curing X26-U03
street lights X26-U06
table lamp Q71-U35
therapeutic lighting Q71-U37
toothbrush X26-U99
X27-A02A3A
torches/flares Q71-U32
traffic lights X26-U06
umbrella X26-U99
X27-A02
underwater lighting Q71-U45E
vehicle X22-B
X26-U07
Q71-U03
vase X26-U99
vivarium X26-U99
X27-H01
wearable Q71-U36

Light activated thyristor - see Photothyristor U12-A02B2C

Light Barriers S03-C08
circuitry S03-C08C
constructional details S03-C08A

Light emitting diodes - see LED U12-A01A
for lighting X26-H

Light guides V07-F01
thin film V07-F01A5

Light pen for computer input T04-F02A1
interface T01-C02B1H

Light source
electrophotographic exposure S06-D02
laser printer S06-E03A
optical heads, recording T03-B02B1

Lighthouse for CRT screen exposure V05-L02E5
V05-L05D1B

Lighting
aircraft W06-B01C5
ballast X26-C01B1
cooling X26-D02
electroluminescent device U14-J
X26-J
installation X26-X
LED X26-H
optical fibres-based V07-N03
X26-G
ship W06-C01C5
stage X26-K
theatre X26-K
vehicle - see **Vehicle** X22-B

Lightly doped drain FET - see Field effect transistors U12-D02A3

Lightning
arrester, metal oxide X13-C03A2
arrester, SF6 X13-C03A3
arrester, silicon carbide X13-C03A1
arrester, spark gap type X12-F01A
X13-C03A
arrester, varistor type X12-A
X13-C03A
conductor X12-G01F

detection S03-D09
rod X25-S
rod, cable installation X12-G01F

Limb prostheses S05-F03

Limit switch V03-B01A

Limiter, amplitude U24-C02A
DC limiting, level clamping U24-C02A5
soft U24-C02A1

LINAC X14-G01

Line
communication - see Line communication system
communication system W02-C01
intensity measurement, optical S03-A02A

Line communications system W02-C01
cross-talk reduction W02-C01C2
echo reduction W02-C01C1
equalising W02-C01B2
hot standby W02-C01D3A
hybrids and transformers W02-C01F1
impedance matching W02-C01F5
U25-D05
W02-A02C
interference reduction W02-C01C3
line amplifier W02-C01E5
monitoring W02-C01D
power line W02-C01A3
repeater W02-C01E
repeater circuits W02-C01E
testing W02-C01D
transmission control W02-C01B1
waveguide W02-C01A1

Line connector V04-N
flexible V04-N
turnable V04-N

Line hybrid
general W02-C01F1
telephone W01-C08B

Linear accelerator X14-G01

Linear actuator, solenoid-type V02-E02A3

Linear image sensor - see Image sensor, linear

Linear motor V06-M06B
X11-H02
asynchronous V06-M06B1
X11-H02A
direct current V06-M06B3
X11-H02C
electrostatic V06-M06B8
electrostrictive V06-M06B7
magnetostrictive V06-M06B9
piezoelectric V06-M06B7
synchronous V06-M06B2
X11-H02B

Linear particle accelerator X14-G01

Linear predictive coding (LPC) for speech
W04-V05G3

Linear power supply regulator U24-E02B2D

Linear speed measurement S02-G01
electrically/magnetically S02-G01B2
optical S02-G01A

Linearising transducer S02-K02A

Linearity improvement
amplifier U24-G03D5
CRT display (TV set) W03-A08A1D
radio receiver W02-G03B4E

Lineman safety harness P35-A03A
X12-G01D

Liquefaction of gases by pressure and cold treatment
Q75-F
constructional details Q75-T

Liquid chromatography S03-E09C5

Liquid circuit breaker
with built-in arc control X13-B02
with separate arc control X13-B03

Liquid contact switch V03-C09

Liquid crystal display - see LCD

Liquid crystal materials U11-A03A
V07-K10A
additives U11-A03A
testing - for use in LCD U14-K01A8
testing S02-J04A3

Liquid electrolyte for capacitor V01-B01B5

Liquid lasers V08-A04D

Liquid phase epitaxy, semiconductor U11-C01H

Liquid sampling, materials investigation
dippers S03-E13B1
dredgers S03-E13B1
ejector devices S03-E13B1
intake at several levels S03-E13B2
pippette S03-E13B2
splitting levels S03-E13B2
suction devices S03-E13B1

Lithium ion cell X16-B01F1

Lithium primary cell, non-aqueous electrolyte
X16-A02A

Lithium secondary cell, non-aqueous electrolyte X16-B01F1

Lithium secondary cell, non-aqueous liquid electrolyte X16-B01F1A

Lithium secondary cell, non-aqueous solid electrolyte X16-B01F1C

Lithographic plate mfr., electrophotographic
S06-E01X

Lithography, semiconductor U11-C04
alignment U11-C04B
alignment, lamp/light source U11-C04B3
alignment mark production U11-C04B1
alignment, vertical U11-C04C3
anti-reflection layers U11-C04A1H
baking U11-C04A1A
beam modulation U11-C04A6
cleaning U11-C04A1A
control of exposure appts. beam U11-C04A6
developing U11-C04A1C
drying U11-C04A1A
electron beam exposure U11-C04F
focussing U11-C04C2
immersion lithography U11-C04K
imprint lithography U11-C04J
imprint process methods and control
U11-C04J2

inspection of masks U11-C04A1E U11-F01B
ion beam exposure U11-C04G
lift-off masking U11-C04D1
mark mask alignment detection U11-C04B2
masking techniques U11-C04D
modulation, beam U11-C04A6
optical elements U11-C04E1A
optical exposure appts., method U11-C04E1
pattern transfer U11-C04D
photolithography U11-C04E
resist coating U11-C04A1B
resist stripping U11-C04A1C
reticle/stage drive mechanisms U11-C04D
rinsing U11-C04A1A
silylating U11-C04A1A
stamp design and mfr. for imprint lithography U11-C04J1
tilt control U11-C04C3
vibration control U11-C04C5
X-ray mask U11-C04H2

Lithography, using beam tubes (see also Processing tube) V05-F08C1

Livestock, see Agriculture, livestock

Livestock X25-N02 P14-E02A
weighing S02-D02C

Load balancing and sharing in data networks W01-A06E1L

Load engaging equipment X25-D01
control T06-D08E X25-D01

Load/unload ramp for hard disk drive T03-A05G T03-A08A1C

Loading mechanism for record carriers
card drive T03-F01 T03-N05
cassette drive T03-E01 T03-N03
disk drive T03-F01 T03-N01
tape drive (computer) T03-A08E T03-E01
library T03-Q07A

Loading mechanism, disk drive T03-F01A

Local area networks (LAN, see also Networks) W01-A06B5A

Local oscillator
broadcast radio receiver W03-B01A7
communications receiver W02-G03A7
TV receiver tuner W03-A01B7

Local time indicator, clock or watch S04-A02B

Localised semiconductor treatment
CVD U11-C01B1
insulating layer formation U11-C05B3

Location-based telephone service W01-C02B7L

Lock X25-M
applications, general Q47-U
electrical-slide X25-M02
electromagnetic X25-M02
electronic X25-M01
mechanical details Q47-A
solenoid X25-M02

Lockable switch V03-C05 X13-A04D

Locking bar for clock or watch S04-A03

LOCOS U11-C08A2
for field oxide mfr. U11-C08A2 U11-C08B9
for IC component isolation U11-C08A2

Logging
non-prospecting, optical S03-C09
well S03-C01C X25-E02
well, electromagnetic S03-C02
well, nuclear S03-C03
well, seismic S03-C01C5
timber industry X25-X01

Logic analyser, testing S01-G01A5 U21-C03D1

Logic arrays, integrated circuit U13-C04C U21-C01E
field programmable, matrix layout U13-C04C
programmable array logic, matrix layout U13-C04C
programmable logic arrays, matrix layout U13-C04C
uncommitted U13-C04D

Logic circuits U21-C
Bi-FET, BIMOS U21-C01C
bipolar U21-C01A
CAD for T01-J15A1
CAD for wiring layout U21-C03D
chalcogenide materials-based U21-C01P
characterised by function U21-C03
current-mode logic U21-C01A2
diode U21-C01A
diode/resistor-transistor U21-C01A1
drivers for displays, relays, etc. U21-C02B
dynamic MOSFET U21-C01B5
emitter coupled logic (ECL) U21-C01A2
fail-safe U21-C03C
fan-in, fan-out improvement details U21-C03A1
FET U21-C01B
fuzzy U21-C03B1B
galvano-magnetic/Hall effect U21-C01X
IC termination U21-C02E
implemented with circuit blocks U21-C01D
increased speed U21-C03A1
integrated injection logic U21-C01A4
interface U21-C02
interface, inter-family U21-C02A
inverters U21-C03A3
logic element-based U21-C01D
merged transistor logic U21-C01A4
MESFET U21-C01B1
modifications to reduce power U21-C03A2A
MOSFET U21-C01B3
nano-tubes U21-C01T
noise suppression U21-C03A2B
opto-electronic U21-C01G
phase-change materials-based U21-C01P
programmable arrays (see also Logic arrays) U21-C01E
programmable logic controller U21-C03B3
reconfigurable U21-C01E

reducing circuit size U21-C03A5
serial line transmission U21-C02D
short circuit protection U21-C03A1
simulators U21-C03D
superconducting U21-C01F
testing U21-C03D1
threshold logic U21-C03A3
transistor-transistor logic U21-C01A3
tri-state U21-C02C
with tunnel effect devices U21-C01R

Logic gates U21-C03B
arithmetic U21-C03B2
for pulse generation U22-A02D
fuzzy U21-C03B1B
multilevel U21-C03B1A
tri-state U21-C03B1A

Logic simulation T01-G06A
U21-C03D
compiled code T01-G06A
hardware accelerators T01-G06C
table driven T01-G06B

Logic switching U21-B05D

Logic, fuzzy - see Fuzzy logic

Long term evolution (LTE) W02-C03C1H

Loop
antenna W02-B01A
data network W01-A06B2
subscriber, testing W01-C02A5
wireless local (WLL) W01-B05A1G

Loss, dielectric, measuring S01-D05A5

Lottery appts. T05-F
W04-X02G

Loudspeaker V06-V04A1
cabinet V06-V02F
circuit V06-V02S
W04-T
cone V06-V02A
connector, lead V06-V02H
W04-S01C
crossover network V06-V02S
W04-T05
diaphragm V06-V02A
enclosure V06-V02F
W04-S01E
manufacture V06-V03A
motional feedback W04-T03
mounting V06-V02F
W04-S01E1
testing V06-V03B
transducer - see Acoustoelectric transducer V06-V01

Low frequency amplifier
power U24-G01B1
small signal U24-G01C

Low power (electronic) connector - see Connector

Low power converter - see Converter

Low power system U24-H
control U24-H
distribution U24-H

Low pressure discharge lamp X26-A01E
construction details – see Discharge lamp X26-A02
control X26-C01B5
electrodeless X26-A01B
electronic ballast X26-C01B2
X26-C01B5
electronic ballast, fluorescent X26-C01B2
X26-C01B5A
fluorescent lamp X26-A01E1
inductive ballast X26-C01B1A
X26-C01B5
operating circuit X26-C01B5
starting circuit X26-C01B5

Low profile semiconductor package U11-D01A7

LSI - see Integrated circuits

LTE (long term evolution) W02-C03C1H

Lubrication
disk drive component T03-F02C
T03-N01
disk drive lubricant dispenser for disk surface T03-F02X
T03-N01
layers for cables X12-D03G
layers for magnetic record carrier T03-A01B5
layers for magneto-optical record carrier T03-D01A7A
lubricating systems X25-X09
switch contact V03-A09
X13-A02
testing of lubricating oil S03-E14F
vehicle engine Q17-E03
Q51-F
X22-A09
dry sump Q51-F01A

Luggage P24-B

Luminaire X26-D

Luminance/chrominance separation
TV receiver W03-A05B
TV receiver, adaptive W03-A05B7
TV receiver, comb/digital filter W03-A05B1
video signal (general) W04-P01L
video signal (recording) W04-F01LD1

Luminescent screens
CRT display tubes V05-D05B
general V05-M01

Lung measurement S05-D01C1

LVDT, transducers S02-K03A2C

M

MAC (media access control) W01-A06E1
W01-A06G3

MAC TV system
receiver details W03-A11
W03-A16A
transmission system aspects W02-F06C1

Mach-Zehnder interferometer, using optical fibre V07-K02
V07-N02

Machine parts testing (see also Testing)
S02-J03

Machine tool X25-A03
P56
abrading X25-A03C2
boring X25-A03B
broaching X25-A03C1
burnishing X25-A03C3
connector V04-M30R
constructional details P56-T
copying P56-C
cutting X25-A03B2
drilling X25-A03B1
grinding X25-A03C2
hand-held X25-A03D
honing X25-A03C2
lapping X25-A03C2
lathe X25-A03A
maintenance/repair P56-G
manipulator X25-A03E
milling X25-A03C1
polishing X25-A03C3
robot X25-A03E
robot, assembly X25-A03E2
robot, welding X25-A03E1
turning X25-A03A

Machine working, registering and indicating
T05-G02

Machine, electric - see Electric machine

Magazine advertising P85-E01J

Magnet
manufacture, large X12-C01D
manufacture, small V02-H04
permanent, large X12-C06
permanent, small V02-E01

Magnetic
alloy recording medium material T03-A01A1A
bearing X25-L06
card record carrier T03-A01C5
T04-C01
carrier re-recording T03-A07B
W04-B01C3
coil (general) V02-D
compass S02-B06
computer T02-A04
control, for transit-time tubes V05-C02A7
conversion of sensor output S02-K03A5
coooling X27-F02A1
diagnosis, medical S05-D01D
digital marking T04-A02A
digital position encoders U21-A03J2
digital reading T04-A03A
digital recording T03-A06C
disk T03-A01C1
disk drive - see Magnetic disk drive T03-A08A
disk manufacture T03-A02E1
field direction measuring S01-E01
field heating X25-B02
field measuring - see Magnetic field measurement S01-E01
flux density measuring S01-E01
head - see Magnetic recording and reproducing head T03-A03
image forming S06-E07
material - see Magnetic material V02-A
medical therapy S05-A03E1
reading, digitally marked carrier T04-A03A
record carrier T03-A01
recording and reproducing head - see Magnetic recording and reproducing head T03-A03
recording and reproduction T03-A
recording and reproduction, audio/video W04-B
screening/shielding V04-U
screening/shielding, casing V04-S
V04-U03
screening/shielding, elements V04-U04
screening/shielding, Faraday cage V04-U02
screening/shielding, gaskets V04-U04
screening/shielding, material V02-A02
V04-U01
screening/shielding, panels V04-U04
screening/shielding, superconducting material V04-U01A
X12-D06B
seal X25-L06
separation P41-E07
X25-H01
shift stores U14-A01A
switch with contacts V03-C06A
tape T03-A01C3
tape driving in recording equipment T03-E07
variables measurement using SQUID S01-E01A

Magnetic card
card per se T03-A01C5
T04-C01
manufacture T03-A02E5
vending machine actuation T05-H02C5A

Magnetic circuit
electric machine, high power X11-J01
electric machine, low power V06-M07
inductor, hf V02-F03A2
inductor, power supply V02-G02A2
reactor, hf V02-F03A2
reactor, high power X12-C01A
reactor, power supply V02-G02A2
transformer, distribution/transmission type X12-C01A
X12-C01E
transformer, hf V02-F03A2
transformer, power supply V02-G02A2

Magnetic drive T03-A08
card drive T03-A08C
card-type disk drive T03-A08A1E
floppy disk drive T03-A08A1A
hard disk drive T03-A08A1C
T03-A08A5
multiple head type drive T03-A08M
PCMCIA T03-A08A1E

RAID T03-A08A5A
tape dive T03-A08E

Magnetic drum record carrier
drum per se T03-A01C7
manufacture T03-A02E7

Magnetic field measurement (using)
DC SQUID S01-E01A1
Faraday rotation S01-E01C
flux-gate sensor S01-E01X
galvano-magnetic effect S01-E01B
Hall effect devices S01-E01B
magneto-optical effect S01-E01C
magnetoresistive devices S01-E01B
RF SQUID S01-E01A3
SQUID (see also U14-F02B) S01-E01A

Magnetic film
general (applied in addition to codes listed below) V02-B
magnetic record carriers T03-A01A
magneto-optical record carriers T03-D01A
nanostructures V02-B04

Magnetic film formation
general (applied in addition to codes listed below) V02-H02
magnetic head manufacture T03-A04A1B
magnetic record carrier mfr. T03-A02A
magneto-optical record carrier mfr. T03-D01A8E
nanostructure V02-H02G

Magnetic head positioning T03-A05
azimuth and alignment correction T03-A05A
dual actuator systems T03-A05A1E
dynamic T03-A05A1
helical scanning positioning system T03-A05D
load/unload ramp for hard disk drive T03-A05G
T03-A08A1C
maximising read signal T03-A05A1B
motor drive T03-A05C5
rotary head speed control T03-A05A1D
seeking T03-A05B1
setting-up of position in equipment T03-A05A3
temp. compensation T03-A05A3
track accessing servo T03-A05B1
track following servo T03-A05A1C
using non-magnetic servo information T03-A05A1G

Magnetic levitation, electric train X23-A01A4

Magnetic material V02-A
binder V02-A09
composition, hard alloy/metal V02-A01A8
composition, hard non-metallic V02-A01B8
composition, soft alloy/metal V02-A02A8
composition, soft non-metallic V02-A02B8
ferrofluid V02-A04
galvano-magnetic V02-A05
hard V02-A01
hard, alloy/metal V02-A01A
hard, alloy/metal for permanent magnet V02-A01A1
hard, alloy/metal for recording medium T03-A01A1A
hard, non-metallic V02-A01B
hard, non-metallic for permanent magnet V02-A01B1
hard, non-metallic for recording medium T03-A01A1C
liquid V02-A04
magnetic record carriers-application T03-A01A1
manufacture, hard alloy/metal V02-A01A9
manufacture, hard non-metallic V02-A01B9
manufacture, soft alloy metal V02-A02A9
manufacture, soft non-metallic V02-A02B9
metallic/non-metallic mixture V02-A01C
nanostructure V02-A10
nanostructure, manufacture V02-A10C
nanostructure, novel V02-A10A
organic V02-A03
organo-metallic V02-A03
semiconductor V02-A05
soft V02-A02
soft, alloy/metal for electric machine core V02-A02A2
soft, alloy/metal for recording head T03-A03J1A
soft, metal/alloy V02-A02A
soft, metallic/non-metallic mixture V02-A02C
soft, non-metallic V02-A02B
soft, non-metallic for electric machine core V02-A02B2
soft, non-metallic for recording head T03-A03J1A
V02-A02B1

Magnetic properties
eddy current flaw detection S03-E11A
magnetostrictive - see also transducers S01-E02X
materials investigation S03-E11
measuring (general) S01-E02
remanence S01-E02X
specific property S03-E11C
susceptibility S01-E02X

Magnetic record carrier
additional non-magnetic material in magnetic layer T03-A01A5
additional recording area T03-A01G
antibacterial and antifungal materials T03-A01B5X
anticorrosion layers T03-A01B5C
antiprint-through magnetic shielding layer T03-A01B1X
antistatic coatings and materials T03-A01B5D
audio recording application T03-A01C8A
backing layer T03-A01B3
base layer T03-A01B1B
binder materials for T03-A01A3
card T03-A01C5
characterised by disk form T03-A01C1
characterised by form T03-A01C
characterised by recording application T03-A01C8
chemical details of magnetic layer T03-A01A8A
complete magnetic layer formula T03-A01A7
drum T03-A01C7
exchange coupling system T03-A01A6A
floppy disk T03-A01C1C
hard disk T03-A01C1A
head-cleaning section T03-A01B5X
T03-A01X
T03-A04B3
heat-assisted record carrier T03-A01T
heat-sensitive layers for printing T03-A01X
heat transfer layers T03-A01B7
helical scan recording tape T03-A01C3A
layer arrangements T03-A01F
leader section of tape T03-A01H

lubricating layer T03-A01B5
magnetic layer magnetic properties T03-A01A8C
magnetic layer physical/chemical details T03-A01A8A
magnetic materials T03-A01A1
magnetic materials properties T03-A01A1E
magnetic shielding layer T03-A01B1X
manufacture - see Magnetic record carrier manufacture T03-A02 V02-H02
metallic magnetic materials T03-A01A1A
mould inhibiting materials T03-A01B5X
multilayer magnetic coatings T03-A01A6
nano-imprinted T03-A01G3
non-metallic magnetic materials T03-A01A1C
optical track T03-A01G5 T03-B01
perpendicular magnetisation carrier T03-A01D
pH control materials T03-A01A9
physical details of magnetic layer T03-A01A8A
physical details of magnetic materials T03-A01A1E
physical recording format T03-A01G
print-through prevention shielding layer T03-A01B1X
protective coating T03-A01B5C
recycling and destroying T03-A01R
soft magnetic shielding layer T03-A01B1X
substrate T03-A01B1A
superconducting T03-A01E
tape T03-A01C3
tape for helical scan recording T03-A01C3A
thermo-assisted record carrier T03-A01T
vertical magnetisation carrier T03-A01D
video recording application T03-A01C8B

Magnetic record carrier manufacture T03-A02
additional recording area T03-A02G
applying backing layer T03-A02B3
applying base layers T03-A02B1B
applying lubricating layer T03-A02B5
applying protective coatings T03-A02B5
back-coating layer application T03-A02B5
bulk storage equipment T03-A02D5
calendering T03-A02B7
card T03-A02E5
characterised by type of carrier T03-A02E
cleaning after basic manufacture T03-A02B7
disk T03-A02E1
drum T03-A02E7
equipment for manufacture T03-A02D
floppy disk T03-A02E1C
hard disk T03-A02E1A
inspection/testing of finished carrier T03-A02C5
laminating layers T03-A02B9
liquid deposition of magnetic film T03-A02A1
magnetic film formation T03-A02A
multistep processes T03-A02B8
nano-imprinted T03-A02G3
pancake T03-A02D5
polishing substrate or base layers T03-A02B1C
process monitoring T03-A02C1
quality control T03-A02C
sputter/vapour deposition of magnetic films T03-A02A3
substrate and non-magnetic layer mfr. T03-A02B1
substrate manufacture T03-A02B1A
substrate polishing T03-A02B1C
substrate texturing T03-A02B1D
substrate/non-magnetic layer processing T03-A02B
tape T03-A02E3
tape slitting T03-A02B7
test recording T03-A02C5B
testing T03-A02C
texturing substrate or base layer T03-A02B1D
treatment of deposited magnetic film T03-A02A5

Magnetic record carrier positioning
data recording tape drive T03-A08E T03-E
disk drive T03-A08A T03-F T03-N01
general T03-A08
general tape drive T03-E

Magnetic recording
audio/video track layout W04-B01A
computer printer image S06-K
dubbing, audio/video W04-H05A
equalising T03-A06D
format, audio/video W04-B01A
head - see Magnetic recording and reproducing head T03-A03
heat-assisted magnetic recording T03-A06N1
microwave-assisted recording T03-A06N3
re-recording prevention, audio/video W04-B01C1
re-recording, audio/video T03-A07B
thermo-assisted magnetic recording T03-A06N1
vertical recording T03-A06V

Magnetic recording and reproducing head T03-A03
alloy materials T03-A03
array type T03-A03A7
casing T03-A03J7A
cleaning T03-A04B3
cleaning area on disk T03-A01B5X T03-A01C1 T03-A01X
cleaning cassette T03-A04B3B T03-N03
contacting surface T03-A03J3
core composition T03-A03J1A
cores, general T03-A03J1 V02-F03A2
demagnetising T03-A04B1
external shielding T03-A03J7A
film-type core T03-A03J1C
flux guide T03-A03J3A
flux sensitive T03-A03C
gap details T03-A03J3C
general details T03-A03J
GMR T03-A03C3A
Hall effect type T03-A03C5
heating device T03-A03J3J T03-A06N1C
inductive, general T03-A03B
internal head connections T03-A03J8
internal shielding T03-A03J7C
lead layers T03-A03E1
magnetoresistive T03-A03C3
manufacture T03-A04A1
metal-in-gap (MIG) T03-A03F
metal-in-gap, gap details T03-A03F1
multiple gap heads T03-A03A

optical system T03-A06N1E
perpendicular recording T03-A03D
pole pieces T03-A03J3A
positioning - see Magnetic head positioning T03-A05
protective layer T03-A03J3E
shielding T03-A03J7
slider T03-A05C1A
spin valve T03-A03C3A
substrate T03-A03J7E
testing T03-A04A5
thin film circuit type T03-A03E
tunnel junction magnetoresistive head T03-A03C3C
vertical recording T03-A03D
windings, general T03-A03J5

Magnetic recording equipment
audio tape recorder W04-B12
audio/video W04-B
azimuth and alignment correction of heads T03-A05A
biasing T03-A06G
connections to read/write head T03-A05C8
copying prevention W04-B01C1
digital audio tape recorder (DAT) W04-B12G
digital recording T03-A06C
digital video tape recorder (DVTR) W04-B10G
duplication prevention W04-B01C1
dynamic head position adjustment T03-A05A1
grounding of helical scan head drum T03-A05D
guide post for tape T03-E02
head connection system T03-A05C3
head positioning - see Magnetic head positioning T03-A05
head slider T03-A05C1A
head support arm T03-A05C3
head support structure T03-A05C
helical scan speed control T03-A05A1D
helical scanning head positioning system T03-A05D
interfacing T03-A10
long play mode switching based on remaining tape quantity T03-E04 T03-E05A9
motor drive for head positioning T03-A05C5
parking, latching arrangements T03-A05G
reading circuitry, digital T03-A06C3
recording and reproducing methods T03-A06
rotary head speed control T03-A05A1D
rotary head transformer signal coupling T03-A05D3A
setting-up of head position T03-A05A3
skew correction T03-A06H
speed changing based on remaining tape quantity T03-E04 T03-E05A9
superconductive recording T03-A06K
tape guide post T03-E02
temp. compensation for head positioning T03-A05A3
track accessing servo T03-A05B1
track following servo T03-A05A1C
track layout T03-A06F1
track layout, audio/video W04-B01A
track selection T03-A05B
video tape recorder (VCR/VTR) W04-B10
writing circuitry, digital T03-A06C1

Magnetic Resonance Imaging - see MRI

Magnetic separation P41-E07 X25-H01

Magnetic tape
audio player/recorder W04-B12
cassette T03-H01B T03-N03
cassette adaptor T03-H01B6
cassette type equipment T03-N03
helical scan type equipment T03-N02
input interface to computer T01-C01
leader section of tape T03-A01H
manufacture of tape T03-A02E3
output interface from computer T01-C01
positioning - see Magnetic tape positioning T03-E
reel-to-reel type equipment T03-N04
tape per se T03-A01C3
tape per se, for helical scan recording T03-A01C3A
video player/recorder W04-B10

Magnetic tape positioning T03-E
cassette changing T03-E01B T03-N03
guide posts T03-E02
leader sensing T03-E05A5
looping/threading T03-E01C
mode control T03-E05
speed control T03-E03A
tension control T03-E04

Magnetic winding
for communications or HF V02-F03B
for low power supplies V02-G02B
for unspecified low power use V02-G02B

Magnetising coil V02-D

Magneto-hydro-dynamic generator
low power machine V06-M06Q
medium/high power machine X11-H03B

Magneto-optical
converison of sensor output S02-K03A5F
devices for magnetic variable measurement S01-E01C
magnetic measuring devices S01-E01C1
material V07-K03
recording/reproducing - see Magneto-optical recording T03-D01 W04-D
transducers S02-K03A5F

Magneto-optical drive T03-D01K
disk drive T03-D01K1
card drive T03-D01K3
tape drive T03-D01K5

Magneto-optical record carrier T03-D01A
antireflective layer T03-D01A3A
card T03-D01A1C
characterised by type T03-D01A1
dielectric layer T03-D01A3E
disk T03-D01A1A
domain wall displacement system T03-D01A5J
exchange coupling magnetic layers T03-D01A5E
layer arrangements T03-D01A4
lubricating layer T03-D01A7A
magnetic layers T03-D01A5
manufacture T03-D01A8
overcoat layer T03-D01A7

recycling and destroying T03-D01R
reflective layer T03-D01A3C
spacing layers (between magnetic layers) T03-D01A5G
substrate T03-D01A2
tape T03-D01A1E

Magneto-optical recording T03-D01 W04-D W04-D02
card record carrier T03-D01A1C
disk carrier T03-D01A1A
disk player/recorder T03-D01 T03-N01 W04-D20A
erasing methods T03-D01E
initialisation system T03-D01F3
interfacing recording equipment T03-D01E5
light beam modulation T03-D01H5
magnetic field modulation T03-D01H1
magnetic head T03-D01F1
magnetic head positioning T03-D01F1A
optical head T03-D01C
optical head focussing/positioning T03-D01D
reading circuitry T03-D01E3C
record carrier - see Magneto-optical record carrier T03-D01A
recording format T03-D01A9
recording methods T03-D01E W04-D
writing circuitry T03-D01E3A
writing methods T03-D01E W04-D

Magnetodynamic relay V03-D05E

Magnetoelastic resonator V06-V01D V06-V01E

Magnetoelastic transducer (general) V06-V01D

Magnetography S06-E07
exposure S06-D09

Magnetometer S01-E01

Magnetophoretic display U14-K09

Magnetoresistive
conversion of sensor output S02-K03A5A
magnetic heads T03-A03C3
sensor for magnetic field *measurement S01-E01D
transducers S02-K03A5A

Magnetoresistors U12-B01B

Magnetostatic resonator V06-V01E3 V06-V01X

Magnetostatic transducer (general) V06-V01X

Magnetostrictive
actuators V06-M06H
conversion of sensor output S02-K03A5C
materials U11-A02 V06-V01D V06-V02R
motors V06-M06H
properties, measuring S01-E02X
relays V03-D05B
resonators V06-V01D V06-V01E
sensors S02-K03A5C V06-V01D V06-V04G
transducer (audio/communication type) V06-V01D V06-V04A V06-V04B
ultrasonic motors V06-M06H
ultrasonic transducers V06-V01D V06-V01N
vibrators V06-V01D V06-V04C

Magnetron
manufacture of tube V05-L05C
microwave oven application X25-B02B1 X27-C01B1
sputtering equipment V05-F05C3A V05-F08D1A
tube V05-C01A

Magnification changing S06-D10A

Magnifier (optical) P81-A01 P81-A50C

Mahjong (game) P36-C03 W04-X02B

Mail
electronic T01-N01C
franking T05-C05
sorting or delivering P41-K05 T05-K02

Mail box X27-X

Mainframes, computers T01-M06B

Mains electric connector - see Connector

Mains, communication/control via W02-C01A3 X12-H03E
telemetry or telecontrol W05-D06P

Mainspring for clock or watch S04-A01

Maintenance
aircraft W06-B08
circuit breakers X13-B08
electric installation X12-G01D
electric machines V06-M11M X11-J08M
operation cycle counter, monitoring T05-G02A
ship W06-C07
spacecraft W06-B08
sputtering, depositing, plasma appts. U11-C09F
steam turbines X11-A01X
switchgear X13-E08
transformer X12-C01D7
vehicle Q16-A

Management information systems T01-J05A2

Manchester code conversion (see Code conversion) U21-A05C

Manicure equipment P24-C03

Manipulator P62-E X25-A03E
control T06-D07B X25-A03E X25-A03F

Manometer S02-F04A9

Manual gain control U24-C05A

Manual input for computer T04-F

Manufacturing
- actuator V06-M11
- aircraft Q25-X05, W06-B08
- assembly plant X25-X14
- AV equipment W03-G10A
- brushes P24-B
- cable X12-D07
- capacitor V01-B04
- capacitor, electrolytic V01-B01G
- circuit breaker X13-B08
- circuit breaker, moulded case X13-D08
- clothes, electrical details X25-T04
- clothes, mechanical details P21-M
- coins P23-M
- contact V03-A08, X13-A01
- electric machine V06-M11, X11-J08
- footwear, non-electrical details P22-M
- fuse X13-D01C
- getter V05-L06
- hard magnetic metal(alloy) material V02-A01A9
- hard magnetic non-metallic material V02-A01B9
- (of) instrumentation S01-J03
- Jewellery P23-M
- lamp, discharge X26-A03
- lamp, incandescent X26-B03
- lens P81-A01, P81-M
- magnetic recording head T03-A04A1
- magnetic recording medium T03-A02
- moulded case circuit breaker X13-D08
- nuclear reactor X14-C04
- nuclear reactor fuel element X14-B04A
- optical recording head T03-B02B8C
- radiation sensor, semiconductor U12-A02A3
- recording equipment T03-M08
- relays with contact V03-D06B
- resistor V01-A04
- resonator, electromechanical V06-V01E, V06-V03A
- ship Q24-X05, W06-C08
- soft magnetic metal(alloy) materials V02-A02A9
- soft magnetic non-metallic material V02-A02B9
- spacecraft Q25-X05, W06-B08
- sports equipment P36-A08A, P36-M, W04-X01E
- steam turbine X11-A01X
- switch with contacts V03-C07, X13-A04F
- switchgear X13-E08
- television W03-A19A
- train Q21-M05
- transducer, acoustoelectric V06-V03A
- transducer, electromechanical V06-V03A
- transformer, high power X12-C01D
- transformer, low power V02-H
- tyres Q11-B20
- umbrella P24-M
- vehicle Q16-A
- vehicle assembly line Q16-D01A, X25-X14
- wheels Q11-A28

Manufacturing automation protocol (MAP) T06-A11, W01-A06B5A, W01-A06F1E, W05-D07B, W05-D08J

Mark, digital T04-C
- detecting, sensing, reading T04-A03
- writing, printing T04-A02

Mark-up languages T01-J11C1
- broadcast (BML) W02-F05C, W02-F07M1
- parsing T01-J11C3, T01-N03B2B

Marking
- cable marking (theft prevention) X12-D03C2
- defective chips, after testing at wafer level U11-F01D
- digital, electrostatic and magnetic T04-A02A
- digital, optical, IR, and UV T04-A02B
- monitoring and verifying T04-B
- photographic film S06-B01B2
- semiconductor wafer, for identification U11-C15A

Martial arts (sports) P36-A04, W04-X01K4A

Maser V08-B01

Mask programmable memories - see ROMs, mask programmable U14-A06B5

Mask, semiconductor
- alignment U11-C04B
- conformal U11-C04D1
- CVD U11-C01B1
- electron beam U11-C04F2
- for radiation treatment U11-C03J6
- inspection U11-C04A1E, U11-F01B
- ion beam U11-C04G1
- lift-off U11-C04D1
- optical U11-C04E2
- resist coating of wafer U11-C04A1B
- techniques U11-C04D
- X-ray U11-C04H2

Mask, shadow V05-D05D

Mass
- flowmeter S02-C01F

Mass spectrometer S03-E10A, V05-J01A1
- control V05-J01M
- detection system V05-J01J
- double focussing S03-E10A1A
- IMS S03-E10A3
- inductively coupled S03-E10A6
- interfacing with other equipment V05-J01K
- ion cyclotron resonance S03-E10A7
- ion mobility S03-E10A3
- ion optics V05-J01G
- ion trap S03-E10A5
- ionising arrangement V05-J01E
- MALDI (Matrix Assisted Laser Desorption Ionization) S03-E10A8
- monitoring V05-J01M

MS/MS S03-E10A2
quadrupole S03-E10A5
sample introduction V05-J01C
Secondary ion mass spectrometer S03-E10A4
SELDI (surface Enhanced Laser Desorption Ionization) S03-E10A8
tandem S03-E10A2
Time of flight S03-E10A3
using magnetic sectors S03-E10A1

Mass storage T01-H03C

Massage
massaging device S05-A05C X27-A02A2

Master slice U13-C04D

Master-slave
clock system for time indication S04-B06
flip-flop U22-A04C

Mat, pressure sensing
piezoelectric type S02-F04B2 V06-V01B V06-V04E
switches with contacts V03-B01D

Material
active, battery electrode X16-E01
battery electrode, manufacture X16-E01G
complex oxide, battery electrode X16-E01C1
conductive - see Conductor X12-D01
conductive, battery electrode X16-E01E
conductor, for semiconductor mfr. U11-A08B
conductor (inorganic), for semiconductor mfr. U11-A08B2
conductor (organic), for semiconductor mfr. U11-A08B1
contact, connector V04-D01
contact, switch V03-A01A X13-A01A
crystal, semiconductor U11-B03
dielectric, mfr. V01-B03B3
dimension control T06-B03
electrochromic U11-A03C
electroluminescent U11-A15
electronic component (general) V04-X01B
electrostrictive U11-A02 V06-V01B V06-V02R
fuel cell electrode X16-E06A1
gas, for semiconductor mfr U11-A12
inorganic compound, battery X16-E01C
magnetic U11-A04
magnetic - see Magnetic material V02-A
magnetoelastic V06-V01D V06-V02R
magnetostrictive U11-A02 V06-V01D V06-V02R
nano-sized, battery electrode X16-E01H1
nano-sized, conductive X12-D01D
nano-sized, fuel cell electrode X16-E06A1A
nano-sized, insulating inorganic X12-E01D
nano-sized, insulating organic X12-E02D
nano-sized, magnetic V02-A10
organic compound, battery electrode X16-E01A
oxide, battery electrode X16-E01C1
photoresist, for semiconductor mfr. - see Resist U11-A06
photonic crystals V07-K10C
piezoelectric U11-A02 V06-V01B V06-V02R
polymer, battery electrode X16-E01A1
precursor for deposition process in semiconductor mfr. U11-A13
pyroelectric U11-A02 U14-E01A
recovery, electronic component (general) V04-X01C
resist, PCB V04-R01A1
screening, electric V04-U01
screening, magnetic V04-U01
semiconductor - see Semiconductor materials U11-A
structure, for battery electrode X16-E01H
superconducting (see also Superconducting material) U14-F01 X12-D06B
superconducting, metal alloy X12-D06B1
superconducting, metal alloy manufacture X12-D06B1A
superconducting, oxide X12-D06B2
superconducting, oxide manufacture X12-D06B2A
thermoelectric U14-E05B
thick film U11-A05
thin film U11-A05
for millimetre wave W02-A08C1
for waveguide W02-A08C

Material processing
crushing X25-J
drying X25-G
handling X25-F
mixing X25-J
separation X25-H
working X25-A

Materials investigation
absorption with light modulation S03-E04A5A
adhesive properties S03-F08
applying impulsive forces S03-F02E
atomic absorption spectrometry S03-E04A5G
automatic optical analysis S03-E04X
bioluminescence S03-E04E
breakdown voltage S01-G03 S03-E02X
by applying steady compression/tension S03-F02C
by shearing S03-F02D
by steady bending S03-F02D
by twisting S03-F02D
capacitance measurement S03-E02C
chemical indicator, general (see also S03-E04E) S03-E09E
chemical indicator, observing S03-E04E
chemical testing S03-E09
chemiluminescence S03-E04E
chemisorption S03-E09A
coefficient of friction, measurement of S03-F08
colour/spectral properties S03-E04A
concentration of suspensions S03-F06A
corrosion resistance S03-F07
cutting ability S03-F02B
density measurement S03-F01
diffusion effects, measurement S03-F04
discharges S03-E10C
ductility measurement S03-F02X
electro-optical detection S03-E04A1

electrons S03-E06
flow properties S03-F03
forming picture using TV camera S03-E04X
gamma rays S03-E06
gas sampling S03-E13C
gas volume/pressure measurement S03-E12
gravimetric analysis S03-E12A
hardness measurement, magnetic S03-E11C
hardness measurement, mechanical S03-F02A
impedance measurement S03-E02D
ionisation/discharges S03-E10
light resistance S03-F07
light transmission S03-E04B1A
liquid sampling S03-E13B
machinability S03-F02B
magnetic properties S03-E11
mechanical strength S03-F02
neutron diffraction S03-E06C
neutrons S03-E06
optical diffraction S03-E04B5
optical excitation S03-E04D
optical fluorescence S03-E04D
optical interference S03-E04B5
optical polarisation S03-E04B5
optical refraction S03-E04B5
optical, with electrical excitation S03-E04D
optical, with mechanical excitation S03-E04D
optical, with thermal excitation S03-E04D
phosphorescence S03-E04D
photo-acoustic absorption spectroscopy S03-E04A5A
precipitation, chemical S03-E09A
Raman scattering S03-E04D1
Raman spectrometry S03-E04D1
resistance to heat/wear S03-F02B
scattering/diffuse reflection S03-E04C
solid sampling S03-E13A
sonic/ultrasonic vibrations S03-E08
specimen preparation S03-E13D
specular reflectivity S03-E04B1B
stimulable phosphor sheet imaging S03-E06B3
triboluminescence S03-E04D
using dual-beam optical spectrometry S03-E04A4
using electrostatics S03-E02X
using tunnelling effects S03-E02F
viscosity S03-F03
weather resistance S03-F07
X-ray diffraction S03-E06C
X-ray fluorescence S03-E06D
X-ray photography S03-E06B5
X-rays S03-E06

Materials investigation characterised by material
air quality (see also pollution) S03-E14N
alloys S03-E14C3
biological material S03-E14H
blood - see also blood S03-E14H1
bone S03-E14H9
carbon fibre S03-E14D7
ceramics S03-E14D4
chemical reaction products S03-E14P3
chemical warfare agents S03-E14L
combustion products S03-E14P1
concrete S03-E14D1
drugs S03-E14A1
enzymes S03-E14H5
explosives S03-E14E3
fibre glass S03-E14D7
foods S03-E14A
fuels S03-E14E1
glass S03-E14D4
herbicides S03-E14M
ice S03-E14B
immunoassay S03-E14H4
inks S03-E14F
leather S03-E14D7
medicines S03-E14A1
metallic electrodes S03-E14C1
metals S03-E14C
minerals S03-E14Q7
oils, e.g. lubricating S03-E14F
other alloys S03-E14C3X
paints S03-E14F
paper S03-E14G
pesticides S03-E14M
pharmaceuticals S03-E14A1
plants S03-E14J
plastics S03-E14D7
proteins S03-E14H5
refractories S03-E14D4
resins S03-E14D7
rock S03-E14E7
rubber S03-E14D7
saliva S03-E14H9
soil S03-E14E7
steam S03-E14B
steel S03-E14C3A
textiles S03-E14G
tissue samples S03-E14H6
urine S03-E14H9
viscous liquids S03-E14F
water S03-E14B
wood S03-E14D7

Mathematical modelling T01-J04E

Matrix computation T01-J04C

Matrix display control T04-H03B

Matrix layout, digital ICs U13-C04

Matteucci effect conversion of sensor output S02-K03A5X

Mattress P26-C
manufacture P26-M

Max.-Min. thermometer S03-B01D

MCFC X16-C02

MCM U11-D01A
U14-H03
V04-Q02A2

MDDT (Mode Dependent Directional Transformation), video coding W04-P01A4E

Measuring
acceleration, linear and angular S02-G03
active semiconductor material properties U11-F01A
air temperature (see also Thermometers) S03-D04
alignment S02-A10D2
using magnetic/electric method S02-A02
S02-A10D2
using mechanical method S02-A01
S02-A10D2

using magnetic/electric method S02-A02
S02- A10D2
using optical method S03-A03
S02- A10D2
using atomic or nuclear radiation S02-A05A3
S02- A10D2
using microwaves S02-A05A1
S02- A10D2
using sound or ultrasound S02-A05B
S02- A10D2
altitude S02-B05
angle, surveying S02-B05
angles S02-A10D1
using mechanical method S02-A01
S02-A10D1
using magnetic/electric method S02-A02
S02-A10D1
using optical method S03-A03
S02-A10D1
using atomic or nuclear radiation S02-A05A3
S02-A10D1
using microwaves S02-A05A1
S02-A10D1
using sound or ultrasound S02-A05B
S02-A10D1
angular speed S02-G01
antenna radiation pattern S01-D07B1
area S02-A10C
using mechanical method S02-A01
S02- A10C
using magnetic/electric method S02-A02
S02- A10C
using optical method S03-A03
S02- A10C
using atomic or nuclear radiation S02-A05A3
S02- A10C
using microwaves S02-A05A1
S02- A10C
using sound or ultrasound S02-A05B
S02- A10C
atmospheric pressure (see also S02-F04 codes)
S03-D03
attitude S02-B05A
audience for radio broadcast W02-D08
audience for TV broadcast W02-F04B
axial thrust in shaft S02-F03B
azimuth S02-B05
battery current S01-D01
S01-G06
X16-H03
battery charge level S01-G06A
X16-H01
battery electrolyte level X16-H02
battery electrolyte specific gravity X16-H02
battery parameters X16-H
battery voltage S01-D01
S01-G06
X16-H03
blood composition in vivo S05-D01G
blood flow S05-D01B1B
blood oxygen content S03-E04A4
blood oxygen content in vivo S05-D01G
blood pressure S05-D01B1A
S02-F04C2
blood pressure or flow S05-D01B1
body shape or movement, medical S05-D01C5
body temperature (see also Thermometers)
S05-D01E
bone content S05-D01J
capacitance S01-D05A3
cardiac output S05-D01B1B
coating thickness, electrically/magnetically
S02-A10B1
coefficient of thermal expansion S03-E01A
coiling properties, materials S03-F02X
contour S02-A10C
using mechanical method S02-A01
S02- A10C
using magnetic/electric method S02-A02
S02- A10C
using optical method S03-A03
S02- A10C
using atomic or nuclear radiation S02-A05A3
S02- A10C
using microwaves S02-A05A1
S02- A10C
using sound or ultrasound S02-A05B
S02- A10C
coordinates S02-A10G1
using mechanical method S02-A01
S02- A10G1
using magnetic/electric method S02-A02
S02- A10G1
using optical method S03-A03
S02- A10G1
creep S03-F02X
cross-modulation S01-D08
cross-section S02-A
current, by DC/AC conversion S01-D01C1A
current, digitally S01-D01C1B
current/voltage, by AC/DC conversion S01-D01C5
current/voltage, in voltaic cellsol S03-E03B
data network QoS W01-A06
deformation S02-A10F
using mechanical method S02-A01
S02- A10F
using magnetic/electric method S02-A02
S02- A10F
using optical method S03-A03
S02- A10F
using atomic or nuclear radiation S02-A05A3
S02- A10F
using microwaves S02-A05A1
S02- A10F
using sound or ultrasound S02-A05B
S02- A10F
degree of coherence S03-A09
depth S02-A10B
using mechanical method S02-A01
S02- A10B
using magnetic/electric method S02-A02
S02- A10B
using optical method S03-A03
S02- A10B
using atomic or nuclear radiation S02-A05A3
S02- A10B
using microwaves S02-A05A1
S02- A10B
using sound or ultrasound S02-A05B
S02- A10B
diameter S02-A10A
using mechanical method S02-A01
S02- A10A
using magnetic/electric method S02-A02
S02- A10A

using optical method S03-A03
S02- A10A
using atomic or nuclear radiation S02-A05A3
S02- A10A
using microwaves S02-A05A1
S02- A10A
using sound or ultrasound S02-A05B
S02- A10A
dichroism S03-E04B5
dimensions
using mechanical method S02-A01
using magnetic/electric method S02-A02
using optical method S03-A03
using atomic or nuclear radiation S02-A05A3
using microwaves S02-A05A1
using sound or ultrasound S02-A05B
using calibrated CCTV system W02-F01D
using fluids S02-A04
using radiation S02-A05A
displacement S02-A10B
for non-vehicle use S02-B12B
for vehicle S02-B12A
X22-X06F
using mechanical method S02-A01
S02- A10B
using magnetic/electric method S02-A02
S02- A10B
using optical method S03-A03
S02- A10B
using optical method, in line of sight S02-B01
using atomic or nuclear radiation S02-A05A3
S02- A10B
using microwaves S02-A05A1
S02- A10B
using sound or ultrasound S02-A05B
S02- A10B
with distance recording S02-B12
for surveying/navigation S02-B02
ductility S03-F02X
effective value of current/voltage S01-D01A1
elasticity of structures S02-J10
electric train/tram X23-A05
electric variables S01-D
electrical, medical S05-D01D
electrochemical properties S03-E03
electromagnetic fields S01-D07B
electrostatic fields S01-D07A
electrostatic fields, optically S01-D07A1
elevation, surveying S02-B05
engine energy or work indicators S02-F04D
fluid pressure S02-F04
fluid speed, by measuring fluid force or pressure difference S02-G02B
fluid speed, electrically S02-G02A
fluid speed, thermally S02-G02A
fluid speed, ultrasonically S02-G02X
fluid speed, using Doppler effect S02-G02X
force (see also Force measurement)
S02-F01
functions of currents S01-D01A
gap S02-A10B
using mechanical method S02-A01
S02- A10B
using magnetic/electric method S02-A02
S02- A10B
using optical method S03-A03
S02- A10B
using atomic or nuclear radiation S02-A05A3
S02- A10B
using microwaves S02-A05A1
S02- A10B
using sound or ultrasound S02-A05B
S02- A10B
gauges S02-A01B
harmonics, electrical S01-D03C
heart rate S05-D01B5
human body impedance S05-D01D1
human body mineral content S05-D01J
inclination S02-B03
inflation pressures S02-F04C1A
integrated circuit parameters (wafer stage)
U11-F01D
intermodulation S01-D08
laser parameters V08-A06
length S02-A10B
using mechanical method S02-A01
S02- A10B
using magnetic/electric method S02-A02
S02- A10B
using optical method S03-A03
S02- A10B
using atomic or nuclear radiation S02-A05A3
S02- A10B
using microwaves S02-A05A1
S02- A10B
using sound or ultrasound S02-A05B
S02- A10B
lenses and lens systems S02-J04A5
light S03-A
linear speed S02-G01
liquid level S02-C
lungs, respiration S05-D01C1
magnetic variables S01-E
magnetic, medical S05-D01D
magnetostrictive properties S01-E02X
mass flow S02-C
mechanical efficiency S02-F02
mechanical hardness S03-F02A
mechanical stress S02-F01
mechanical vibration S02-E
mechanical vibration, by detecting capacitance change S02-E02
mechanical vibration, by detecting reluctance change S02-E02
mechanical vibration, by radiation-sensitive detector S02-E02
mechanical vibration, using detector in fluid S02-E02
micrometers S02-A01A
modulation and noise S01-D08
modulation depth S01-D08A
modulation index S01-D08A
moment of a force S02-F02
MRI S01-E02A2
S03-E07A
MRI, for medical purposes S05-D02B2
neurological, nerve stimulation S05-D01A
neutron radiation S03-G01C
NMR S01-E02A1
NMR, for medical purposes S05-D02B2
noise figure S01-D08B
noise power S01-D08B
nuclear radiation S03-G
nuclear radiation intensity S03-G02B

optical element parameters S02-J04A
V07-J
optical phase difference S03-A09
optical radiation S03-A
optical wavelength S03-A09
orientation, for surveying navigation S02-B05A
pain threshold S05-D01X
partial pressures S02-F04C3A
phase angle S01-D04
physical/chemical properties S03-E
pollution S03-D06
position S02-A10G2
large scale S02-B01A
using mechanical method S02-A01
S02- A10G2
using magnetic/electric method S02-A02
S02- A10G2
using optical method S03-A03
S02- A10G2
using atomic or nuclear radiation S02-A05A3
S02- A10G2
using microwaves S02-A05A1
S02- A10G2
using sound or ultrasound S02-A05B
S02- A10G2
power, electrical S01-D02
X12-H04
power, mechanical (see also Dynamometers) S02-F02
pressure differences S02-F04C1
pressure, mechanically S02-F04A
propagation velocity of mechanical waves S02-E01
psychotechnics S05-D01X
rainfall (see also Moisture measurement) S03-D02A
rapid changes in pressure S02-F04D3
reflection coefficient S01-D05B5
reflex and reaction, medical S05-D01F
refractive index S03-E04B5
resistance, electrical S01-D05B1
resonant frequency, mechanical S02-E01
reverberation time S02-E01
RMS current/voltage S01-D01A1
roughness S02-A10E
using mechanical method S02-A01
S02- A10E
using magnetic/electric method S02-A02
S02- A10E
using optical method S03-A03
S02- A10E
using atomic or nuclear radiation S02-A05A3
S02- A10E
using microwaves S02-A05A1
S02- A10E
using sound or ultrasound S02-A05B
S02- A10E
scattering parameters S01-D05B5A
semiconductor bandgap U11-F01A9
semiconductor device multilayer circuit boards S01-G02B
semiconductor film parameters U11-F01B
semiconductor, chemical analysis U11-F01A5
several components of force S02-F03B
several pressures S02-F04C3
sheet thickness S02-A10B1
using mechanical method S02-A01
S02- A10B1
using magnetic/electric method S02-A02
S02- A10B1
using optical method S03-A03
S02- A10B1
shock S02-G03
signal-to-noise ratio S01-D08B
W02-G03J5
sound waves S02-E
spacing S02-A10B
using mechanical method S02-A01
S02- A10B
using magnetic/electric method S02-A02
S02- A10B
using optical method S03-A03
S02- A10B
using atomic or nuclear radiation S02-A05A3
S02- A10B
using microwaves S02-A05A1
S02- A10B
using sound or ultrasound S02-A05B
S02- A10B
specific heat S03-E01C
speed S02-G01
speed of bodies relative to fluid S02-G02
speed of fluid S02-G02
speed of sound S02-E01
speed, doppler methods S02-G01D
speed, electrically/magnetically S02-G01B
speed, mechanically S02-G01X
system, medical S05-D01
tape travel in recording equipment T03-J05A
tapers S02-A10D1
optical measurement S02-A03
thermal conductivity S03-E01A
thermal properties S03-E01
thickness S02-A10B
using mechanical method S02-A01
S02- A10B
using magnetic/electric method S02-A02
S02- A10B
using optical method S03-A03
S02- A10B
using atomic or nuclear radiation S02-A05A3
S02- A10B
using microwaves S02-A05A1
S02- A10B
using sound or ultrasound S02-A05B
S02- A10B
thickness of sheet or coating S02-A10B
using mechanical method S02-A01
S02- A10B
using magnetic/electric method S02-A02
S02- A10B
using optical method S03-A03
S02- A10B
using atomic or nuclear radiation S02-A05A3
S02- A10B
using microwaves S02-A05A1
S02- A10B
using sound or ultrasound S02-A05B
S02- A10B
torque S02-F02
torque on nut S02-F03B
total harmonic distortion (THD) S01-D03C5
trajectory S02-H
tube for V05-F08B
turbidity, using optical transmission - see also Nephelometer S03-E04B1A

twisting properties, materials S03-F02X
tyre pressure S02-F04C1A
vacuum S02-F04D1
vehicle, engine paramaters X22-A05
vehicle, non-engine parameters X22-X06
vehicle power S02-F03B
velocity of light S03-A09
vibration S02-E
voltage S01-D
voltage, by DC/AC conversion S01-D01C1A
voltage, digitally S01-D01C1B
volume S02-C
volume flow S02-C
VSWR S01-D05B5
well drilling conditions, acoustically S03-C01C5
well drilling conditions, electromagnetically mechanically S03-C02
well drilling conditions, mechanically S03-C09
wheels, mechanical S02-A01A
width S02-A10B
using mechanical method S02-A01
S02- A10B
using magnetic/electric method S02-A02
S02- A10B
using optical method S03-A03
S02- A10B
using atomic or nuclear radiation S02-A05A3
S02- A10B
using microwaves S02-A05A1
S02- A10B
using sound or ultrasound S02-A05B
S02- A10B
work- mechanical S02-F02
X-radiation S03-G

Mechanical
dimension measurement - see also Measuring S02-A10
oscillation control T06-B12
power control T06-B12
recording methods W04-A
separation X25-H06
surgery S05-B03
treatment, semiconductor wafers U11-C06A
video scanning W04-M01E5

Mechanical control system T06-C
automatic movement-using device T06-C09
controlled member T06-C01
controlling member T06-C01
limiting movement-type T06-C02
manually-operated mechanism-type T06-C03
multi- or several- controlled members-type T06-C03B
single controlled member-type T06-C03A

Mechanical power
measurement of S02-F02
special purpose measurement of S02-F03B

Mechanical strength tests
applying impulsive forces S03-F02E
applying steady tension or compression S03-F02C
by steady bending, twisting or shearing S03-F02D
creep measurement S03-F02X
hardness S03-F02A
other (includes ductility, twisting and coiling properties) S03-F02C
resistance to wear/ heat, machinability/ cutting ability S03-F02B

Mechanically varied capacitor - see Variable capacitor V01-B02A

Media player T01-J30C
W04-E30A1

Medical
acupuncture S05-A05
administering drugs through skin S05-J02
aids P33-A
aids for handicapped people S05-K
air filter S05-A09
alarm based on equipment failure W05-B07G5C
alarm based on patient status W05-B07G5A
ambulance equipment S05-G02B2B
anaesthesia S05-L
anaesthetic gas delivery S05-L01
analysis S05-C
applying currents as treatment S05-A04
artificial aids for eyesight S05-F05
audio relaxation S05-A09
audiometery S05-D01D
blood analysis in vitro S05-C01
blood analysis in vivo S05-D01G
blood flow measurement S05-D01B1B
blood pressure measurement S05-D01B1A
blood pumping S05-H02
breathalyser S05-C09
cardiac massage S05-A05A
cardiac output measurement S05-D01B1B
communicating with internal devices S05-Y05
connector V04-M30M
S05-A02
controlling internal devices S05-Y05
controlling medical endoscope S05-D04A
defibrillator S05-A01B
diagnostic displays S05-D07
diagnostic information systems S05-D06
dialysis S05-H
dialysis and blood treatment S05-H01
drug management and administration S05-M01
drug storage and dosing S05-M
drug taking monitoring S05-M02
electrical diagnosis S05-D
electrocardiograph S05-D01A1
electrodes for bioelectric currents S05-D01A2A
electrodes for ECG measurements S05-D01A1A
electrotherapy S05-A04
encephalograph S05-D01A
endoscope (diagnostic) S05-D04
W02-F01M
endosopes, imaging aspects S05-D04B
equipment failure alarm W05-B07G5C
expert systems S05-D06
eye exercise S05-A07
eye testing S05-D05
feeding devices P33-A50
filtering S05-H
fluid analysis in vitro S05-C02
fluid analysis in vivo S05-D01L
for endoscopic/keyhole surgery S05-B05
gas delivery of medication S05-M04
general diagnostic processing S05-D08

general image processing S05-D08A
general electrode arrangements S05-A02
hair removal S05-B09
heart pacemaker S05-A01A
heart pump S05-F04
heart rate measurement S05-D01B5
hospital administration S05-G02G
hospital bed S05-G02B1
hospital database S05-G02G1
hospital equipment S05-G02
hospital intercoms S05-G02D
hospital records S05-G02G
human body impedance measurements S05-D01D1
implantable devices S05-Y03
implanted hearing aid S05-F01
incontinence preventer S05-F02
information system T01-J06A1
infusion S05-J
ingestible devices S05-Y04
insomnia treatment S05-A09
intramuscular anaesthesia systems S05-L02
intravenous anaesthesia systems S05-L02
intravenous fluid delivery S05-J01A
iontophoresis S05-A04A
IT systems S05-G02G
laser, IR, UV surgery S05-B01
life support systems S05-G02B3
limb prosthesis S05-F03
measurement, electrical or + magnetic S05-D01D
measuring and recording S05-D01
measuring bioelectric current S05-D01A
medicine/drug storage S05-M03
monitor built into telephone S05-D01 W01-C01P8
monitoring internal devices S05-Y05
nerve stimulation S05-A04
nano/micro scale devices S05-Y02
nuclear radiation diagnosis S05-D02C
operating theatre equipment S05-G02C
ovulation and conception detection S05-D09
pacemakers and defibrillators S05-A01
pain threshold sensing S05-D01X
patient beds S05-G02B1
patient monitoring S05-G02B2
patient positioning for therapy S05-A10
patient table for radiation diagnosis S05-D02E
physical therapy S05-A05
portable monitoring equipment S05-G02B2B
prosthesis P32-A40 S05-F
psychotechnics S05-D01X
pulse measurement S05-D01B5
pumping S05-H
radiation diagnosis S05-D02
reflex measurement S05-D01F
remote monitoring of patients S05-G02B2A
respiration measurement S05-D01C1
respiratory assistance using gas S05-G02E
respiratory massage S05-A05A
sex determination S05-D09
simulation and education systems S05-P
speech therapy S05-A09
sterilising S05-G01
stethoscope S05-D01H
stimulable phosphor sheet S05-D02A5C
stretcher P33-A01
surgery, laser, IR, UV S05-B01
surgery, mechanical and electrical S05-B03
surgery, ultrasonic S05-B02
teaching S05-X
telediagnosis S05-D06A
temperature measurement S05-D01E
testing of drugs S05-C05
testing and monitoring of medical apparatus S05-Y01
therapy or treatment P33-A20 S05-A
tomography, X-ray S05-D02A1
transplanting S05-X
treatment planning systems S05-G02G4
treatment using optical, UV, or IR radiation S05-A03A
trolley for patients P33-A01 S05-G02A
ultrasonic and sonic diagnosis S05-D03
ultrasonic medical equipment S05-D03B
ultrasonic transducer arrangements S05-D03A2
ultrasonic transducer details S05-D03A1
waste management S05-W
wheelchair P33-A01 S05-G02A
X-ray detector positioning S05-D02A6B
X-ray diagnosis S05-D02A5
X-ray generation, for diagnosis S05-D02A3
X-ray recording, diagnostic images S05-D02A5
X-ray source positioning S05-D02A6A
X-ray, protection from S05-D02A3

Medicine
administration and management S05-M01
analysis S03-E14A1 S05-C05
computer systems T01-J06A
dosing and storage S05-M
gas delivery S05-M04
monitoring patient compliance S05-M02

Meeting co-ordination T01-N03A3

Membrane switch V03-C01A2A

Memory
address selection U14-A08A
addressing circuitry U14-A08
analogue U14-B
bistable FET cells - see RAMs, static, with bistable FET cells U14-A03B1
bit line control U14-A07
bubble, magnetic U14-A01A1
clock/synchronisation circuit U14-A07C
combined FET and bipolar U14-A03B5
computer interface for T01-C01C
data refreshing U14-A03B4A
dynamic U13-C04B1A
ferro-electric, computer interface for T01-C01C
FET and capacitor - see RAMs, dynamic, with capacitor store U14-A03B4
fixed-program - see ROMs, fixed program U14-A06B
flip-flop - see RAMs, static, with bistable FET cells U14-A03B1
initialisation circuitry U14-A07
interconnection layout U14-C01
manufacture U11-C18B5

mask-programmable - see ROMs, mask programmable U13-C04A U14-A06B5
multilevel U14-B01
multiport U14-A08B1
neutral models U14-B02
non-reprogrammable - see ROMs, non-reprogrammable U14-A06B
non-reprogrammable, using diodes - see ROMs, non-reprogrammable, using diodes U13-C04A U14-A06B1
non-reprogrammable, using fuses - see ROMs, non-reprogrammable, using fuses U13-C04A U14-A06B1
non-volatile, ultraviolet erasable - see ROMs, ultraviolet erasable U13-C04A U14-A06C
one-time programmable U14-A06B
packages U14-A10
power supply U14-A09
precharge and equalisation circuitry U14-A07
programming/erasing U14-A07B
reading/writing U14-A07
ROM, electrically programmable U13-C04A1
ROM/RAM combined U14-A03B9
sensing circuitry U14-A07A
smart card T04-K01
software error prevention U14-A11
static RAM U13-C04B1B
testing, using built-in circuits U14-D01
testing, using error correction codes U14-D02
thin film arrays U14-H01A
thin magnetic film U14-A04A
using bipolar transistors U14-A03A1
using diodes/bipolar transistors/thyristors U14-A03A
with adjustable threshold FET cells U14-A03B7
with electro-optical element U14-A02A
with electrochemical cell U14-A03X
with ferroelectric elements U14-A03F
with FETs U14-A03B
with hologram storage U14-A02B1
with magneto-optical element U14-A02A
with optical storage element U14-A02B
with random access - see RAMs U14-A03
with redundant circuits U14-D01A U14-D01B
with shift stores - see Shift stores U14-A01
with superconductive elements U14-A03G U14-F02B
with variable resistance organic film U14-A03X
word line control U14-A08

Memory bus access control T01-H05B1

Memory storage in facsimile S06-K07A4

Memory storage in telephone W01-C01Q2
internal W01-C01Q2A
external W01-C01Q2C T01-H01B3A

Memory storage in TV receiver W03-A11M

Memory systems, computer T01-H01B
associative T01-H03B
by type T01-H03
cache T01-H03A
content addressable T01-H03B
dual port T01-H03D
hardware details T01-H01A
illegal access T01-H01C2
interleaved T01-H03C
multiprocessor memory management T01-H08
non-volatile T01-H01B3D
other memory components T01-H01X
other memory types T01-H03X
preventing memory corruption/loss T01-H01C4
protection of contents T01-H01C
refresh T01-H01C3
sequential access T01-H03D
shared T01-H03D
smart card, fraud prevention T01-H01C1
stacks T01-H01D
static T01-H01B3
storage components T01-H01B
virtual T01-H03A

MEMS U12-B03F1
MEMS actuator V06-M06G
MEMS device U12-B03F1A
MEMS display T04-H03C8
MEMS generator V06-M06G8
MEMS motor V06-M06G
MEMS oscillator U23-A01A2
MEMS relay V03-D10
MEMS resonator V06-V01E V06-V01K1
MEMS sensor V06-V01K1 V06-V04G
MEMS switch V03-C10
MEMS switch, manufacture V03-C07A
MEMS system U12-B03F1B
MEMS transducer(audio) V06-V01K1 V06-V04A
MEMS tuning in resonant circuits U25-G01

Menu-driven telephone W01-C01G8A

Menu interface, keyboard T01-C02A1

Mercury selenide - see AII-BVI compounds

Mercury sulphide - see AII-BVI compounds

Mercury telluride - see AII-BVI compounds

Mercury thermometer S03-B01D

MESFET - see Field effect transistor U12-D02B

Metadata T01-J05B2C

Metadyne X11-H09
control X13-H01C9

Metal base transistor - see Hot electron transistor U12-D02J

Metal casting P53-B
control P53-T20 T06-D05B
electrical details X25-A01
lubrication details P53-T05
maintenance P53-G
post-casting treatment P53-B05
pre-casting treatment P53-B04
recycling of components P53-R
repair P53-G
safety P53-T20
types of metal casting
continuous casting P53-B01A
die casting P53-B01C2
expandable mould casting P53-B01B

non-expandable mould casting P53-B01C
permanent mould casting P53-B01C1
sand casting P53-B01B1
Metal casting (applications)
industrial P53-U40
vehicle P53-U03
Metal casting (materials processed)
cobalt (alloys) P53-V08
coinage metals P53-V04
composites with non-metallic inorganic materials P53-V10
composite with organic components/polymers P53-V11
ferrous metals P53-V02
group 11 elements P53-V04
light metals P53-V03
nickel (alloys) P53-V07
rare earth metals P53-V09
refractory metals P53-V05
soft metals P53-V06
Metal insulator-silicon oxide-silicon structures - see MIOS
Metal vapour laser - see Lasers V08-A04B
Metal-air hybrid cell X16-A01B X16-D01
electrode X16-E03 X16-E06C1
Metal-air primary cell X16-A01B
Metal-air secondary cell X16-D01
Metal-halogen cell X16-B01D X16-D02
electrode X16-E06C2
Metal-hydrogen cell X16-B01A3
electrode X16-E05C
Metal-in-gap magnetic head T03-A03F
gap-filling material T03-A03F1
Metal-Insulator-Metal - see MIM
Metal working
construction, milling and machining systems
chuck P54-T03
cooling system P54-T22
drives/gears P54-T02
frame/casing P54-T05
lathes P54-T01
lubrication P54-T22
mandrel P54-T03
tools/tool holders P54-T03
construction, punching, working and forging systems
anvil P52-T03
blank holder P52-T04
bolster plate P52-T01
burr prevention/removal P52-T10
cooling and lubrication P52-T22
die/die cushion P52-T02
hammer P52-T03
mandrel P52-T08
ram P52-T03
storage of finished items P52-T99
workpiece feeding/guiding P52-T25
control and safety
casting, control T06-D05B
detector S03-C02B
forging/punching/hammering P52-T20
foundry moulding P53-A
milling, control P54-T22
shaping, control T06-D05A
working, control T06-D05A
maintenance P52-G P54-G
phase segregation, semiconductor masking U11-C04D2
preliminary treatment P52-A
recycling of components P52-R P54-R
repair P52-G P54-G
small-scale/handheld P54-H
types of metal working
bending P52-D02
boring/drilling P54-B
broaching P54-D03
casting – see Metal Casting X25-A01 P53
drawing P51-B
deep-drawing P52-D05
extruding P51-C
filing P54-D05
forging P52-C
gear/tooth racks making P54-E
hammering P52-C
milling P54-C
planing P54-D01
punching P52-B
rasping P54-D05
refining, electrolysis X25-R02
riveting P52-C
rolling P51-A
sawing P54-D04
shaping X25-A02
shearing P54-D02
slotting P54-D01
spinning P52-D04
stamping P52-D03
straightening/stretching P52-D01
thread cutting P54-F
turning P54-A
wire working P52-D06
Metal working (applications)
building/construction P54-U17
cutlery P52-U99
industrial P52-U40 P54-U40
haberdashery P52-U50B
jewellery P52-U50A P54-U50A
personal P52-U50 P54-U50
vehicle P52-U03 P54-U03
weapons P54-U31
Metallurgical connections, semiconductor devices U11-D03B
bonding pads U11-D03B1
bump terminals U11-D03B1
fuse U12-C04
HF monolithic signal transmission lines U11-D03B9
metal-ceramics bonding U11-D03B3
solder U11-D03B3
to substrate U11-D03B3

Metallurgy X25-Q
cold working X25-Q02
heat treatment X25-Q02
iron or steel manufacture X25-Q01
process X25-Q
process control T06-D09
X25-Q
tensile testing - see also Mechanical strength tests S03-F02
testing alloys S03-E14C3
testing brass S03-E14C3X
testing bronze S03-E14C3X
testing metallic electrodes - see also Electrodes S03-E14C1
testing metals S03-E14C
testing solder - see also under solder
S03-E14C3X
testing steel S03-E14C3A
Metals analysis S03-E14C
Metamaterial antenna W02-B08Q1
Meteorology S03-D
air temperature (see also Thermometers)
S03-D04
atmospheric pressure measurements
S03-D03
bulletin reception in broadcast receiver W03-B08C4
ice detection S03-D02B
pollution/fall-out measurements S03-D06
rain detection S03-D02B
snow detection S03-D02B
weather prediction system S03-D05
weather lidar W06-A06H2
weather radar W06-A04H2
Meter
digital electrical meters S01-B03
electrical power S01-D02
electricity consumption S01-B
T05-H06
electromechanical integration S01-B
electronic integration S01-B
frequency S01-D03
gas consumption T05-H06
gas consumption- remote reading S02-K08A
integrating current/power S01-B
monitoring S01-B01
parking T05-G03A
phase S01-D04
power system, remote monitoring X12-H04A
reading, remote indication, electric S01-B01
reading, remote indication, general S02-K08A
remote indication, electric power distribution/transmission system X12-H04A
taxi T05-G01
Watt-hour S01-B
Watt-hour, remote reading S01-B01
X12-H04A
Watt-hour, tamper protection S01-B05
Metronome S04-A09
S04-C09
Metropolitan area networks (MAN, see Networks) W01-A06B5B
MF tone generator for telephone dialling
W01-C01B2C
MFB (motional feedback) for audio transducer
W04-T03
MHD generator X11-H03B1
MICR T04-D01
Micro-analysis S03-E09D
Micro-control parallel operation T01-F01A
Microactuator V06-M06G
Microanalyser V05-F01A4
Microarrays for instrumentation S03-H01A
Microcapsule type copier S06-B04A1
Microcomputer T01-M06A
Microelectromechanical device/system
actuators, electrostatic excitation V06-M06G1
actuators, magnetic excitation V06-M06G2
control, actuators V06-N22
control, motors V06-N22
manufacture, resonator V06-V01E
V06-V03A7
microgenerators V06-M06G8
motors, electrostatic excitation V06-M06G1
motors, magnetic excitation V06-M06G2
nanogenerators V06-M06G8A
resonators V06-V01E
V06-V01K1
semiconductor device U12-B03F1A
semiconductor structures U12-B03F1
semiconductor structures, manufacture U11-C18C
semiconductor system U12-B03F1B
sensors V06-V01K1
V06-V04G
transducers (audio/communication type) V06-V01K1
V06-V04A
V06-V04B
Microfabricated cold cathode device V05-B05
anode electrodes V05-B05B5B
array implementation V05-B05A3B
characterised by cold cathode emitting element V05-B05A5C
characterised by configuration V05-B05A3
characterised by dielectric material substrate V05-B05A8X
characterised by emitting element V05-B05A5
characterised by film emitting element
V05-B05A5B
characterised by II-VI element substrate
V05-B05A8C
characterised by III-V element substrate
V05-B05A8A
characterised by number of electrodes
V05-B05A1
characterised by pn junction emitting element V05-B05A5A
characterised by semiconductor substrate
V05-B05A8
characterised by silicon substrate V05-B05A8E
characterised by substrate V05-B05A8
characterised by substrate type V05-B05A8
cold cathode electrode V05-B05B3
collector electrode V05-B05B5B
combined with other vacuum conduction devices V05-B05A3E
complete novel device V05-B05B8

control electrodes V05-B05B5A
device details V05-B05B
dielectric substrate (novel) V05-B05A8X
V05-B05B1
diode type device V05-B05A1A
driving circuitry V05-B05B7D
emitting element (novel) V05-B05B3
encapsulation V05-B05B7A
grid/control electrodes V05-B05B5A
housing V05-B05B7A
II-VI element substrate (novel) V05-B05A8C
V05-B05B1
III-V element substrate (novel) V05-B05A8A
V05-B05B1
integral circuitry V05-B05B7D
integrated with solid state semiconductor device V05-B05A3C
interconnections V05-B05B7B
manufacture U11-C18B9
V05-L05B5
silicon substrate (novel) V05-B05A8E
V05-B05B1
single device implementation V05-B05A3A
substrate (novel) V05-B05B1
triode device V05-B05A1B

Microfilm
reader S06-B06C
reader-printer S06-B04A
S06-B06C

Microfluidic instrumentation S03-H01B

Micromachine V06-M06G

Micromechanical device - see Microelectromechanical device

Micrometer S02-A01A

Microminiature valves, semiconductor U12-B03F

Micromotor V06-M06G

Microphone V06-V04A2
circuits V06-V02S
manufacture V06-V03A
sanitary devices V06-V02J
telephone handset V06-V04B1
W01-C01M
testing V06-V03B
throat-mountings V06-V02F
transducer - see also Acoustoelectric transducer V06-V01
waterproof filter V06-V02J

Micro power generator V06-P01

Microprocessing
speed enhancement T01-F01A

Microprogramming T01-F01
address formation T01-F01C
loading T01-F01B
T01-F01B1

Microrelay V03-D10
manufacture V03-D06B1

Microresonator V06-V01E
V06-V01K1

Microscope
acoustic S03-E08G
electron S03-E06B1
V05-F01A1
ion V05-F01A2
optical S02-J04B1
optical elements for P81-A50C
positron V05-F01A9
Raman S03-E04D1
scanning electron S03-E06B1
transmission electron S03-E06B1
tunnelling - see also Atomic Force and Scanning Tunnelling Microscopes S03-E02F
ultrasonic S03-E08G
X-ray S03-E06B1
V05-F01A3

Microscopy
confocal S03-E04R1
electron S03-E06B1
optical S03-E04R

Microsensor S03-H02A
V06-V01K1
V06-V04G

Microstrip
aerial W02-B02A
circuit, general U23-Q
electromagnetic waveguide filter W02-A05A2
line per se W02-A01A3
manufacture W02-A07A
microwave hybrid/IC application U14-H03H
W02-A01A3
testing W02-A07C
waveguide (RF) W02-A01A3
waveguide circulator W02-A04F1
waveguide resonator W02-A03A4

Microswitch V03-C10
manufacture V03-C07A

Microtransducer
acoustoelectric type V06-V01K1
microactuators V06-M06G
micromotors V06-M06G
microresonator V06-V01E
V06-V01K1
microsensor V06-V01K1
V06-V04G

Microturbine plant X11-C15
environmental protection X11-C08
monitoring, operation and control X11-C10
microturbine generator, application X11-U01M

Microwave
analysis S03-E05
circuit, general U23-Q
distribution for CATV W02-F03A7
drying X25-B02B3
flaw detection S03-E05C
heating X25-B02B
hybrid circuit U14-H03G
industrial heating X25-B02B3
medical therapy S05-A03D
microstrip W02-A01A3
moisture detection S03-E05A
oven X25-B02B1
X27-C01
plasma processing appts. V05-F05C1A
point-to-point radio link W02-C03D
semiconductor circuit, general U14-H03G

Microwave-assisted magnetic recording T03-A06N3

Microwave lamp X26-A01B
construction - see Discharge lamp X26-A02
manufacture - see Discharge lamp X26-A03
Microwave oven X25-B02B1
X27-C01
construction X27-C01A
construction, cavity X27-C01A
construction, door X27-C01A
construction, interlock X27-C01A
construction, seal X27-C01A
control X27-C01B3
magnetron V05-C01A
X27-C01B1
mode stirrer X27-C01B1
power supply X27-C01B3
programmer X27-C01B3
timer X27-C01B3
turntable X27-C01B1
waveguide W02-A
X27-C01B1
MIDI systems W04-U05
MIG magnetic head T03-A03F
gap-filling material T03-A03F1
MIG welding X24-B06
Military
battlefield communications W07-X03
bomb detection/defusing W07-F05A
early warning systems W07-F04
mine sweeping W07-F05A
reconnaissance W07-F04
W02-F01
weapon detection W07-F05C
Military equipment testing/inspection W07-H
Military equipment, electrical W07-J
constructional details W07-J05
clothing W07-F01B
electrical installations, cables, connectors
W07-J01
manufacture W07-J07
power generation and distribution W07-J03
robotic 'mule' W07-X07
soldier aids W07-X07
tracking of W07-X05
Military training equipment W07-D
simulation systems W07-D05
target practice systems W07-D01
Military vehicle Q19-D
W07-X01
X22-P06
aircraft Q25-P13
W06-B15E
ship Q24-P13
W06-C15E
Military weapons
W07-E
electric firing W07-E01
laser weapons W07-E07
launching systems Q24-M01A
W07-E05
munitions W07-E06
non-lethal weapons W07-E08
presence detection W07-F05C
ship-mounted Q24-M
stun gun W07-E08
Milking
livestock, milking monitoring & control
X25-N02B
milk processing X25-P01C
Mill P41-A03
Milling X25-A03C1
control T06-D07A
X25-A03C1
Milling, food X25-P01X
MIM capacitor U12-C02C
MIM diode U12-C01E
MIMO radio systems W02-C03A5
Mimic diagram, switchgear X13-E01
MIMIM tunnel transistor U12-D02J2
Mine sweeping W07-F05
Minicomputer T01-M06A
Minimum shift keying U23-P01A5
W01-A09B
Mining
control T06-D11
conveyors X25-D02A
equipment – electrical X25-D02
equipment - mechanical Q49-A
extraction tools and machines Q49-A01
handling materials X25-D02A
lift X25-D02A
maintenance equipment Q49-H
material being mined or quarried Q49-V
methods Q49-B
safe power supply/equipment X25-D02C
safety devices Q49-C05
X25-D02
support structures Q49-A01H
tools X25-D02B
ventilation Q49-C01
MIOS transistor U12-D02A2
Mirror, polygonal (printer) S06-D01B
Mirror P27-B01
MIS capacitor U12-C02A
Missile guidance W07-A01
altitude/attitude control T06-B01B
W07-A01
antenna W02-B08F6
W07-A03A
beam rider W07-A01E1
by electric cable or optical fibre W07-A01E3
by non-wire links W07-A01E1
computers for T01-J06B
W07-A01
heat-seeking W07-A01C
laser pointing W07-A01C1
laser targeting W07-A01C1
navigational aspects W07-A01A
optical sensors and elements W07-A03B
propulsion control W07-A01G
radome, protective enclosure W02-B07C1
W07-A03D
remotely guided W07-A01E
stability/ flight control W07-A01H
sensing systems, details W07-A03
target designation W07-A01C1
target-seeking W07-A01C

Mitola (cognitive) radio systems W02-C03G5
Mixed signal connector - see Connector
Mixed-FDM-TDM system W02-K07A
Mixing, audio W04-G05
Mixing machine X25-J
control T06-D04
X25-J
Mixing, sound W04-G05
Mixing, video W04-N05B1
Mixer (frequency changing) U23-J01
balanced U23-J01C5
bipolar transistor implementation U23-J01A3
diode implementation U23-J01A1
double-balanced U23-J01C5C
FET implementation U23-J01A5A
Film circuit implementation U23-J01E
Integrated implementation U23-J01E
ring U23-J01C5E
single-balanced U23-J01C5A
single-ended U23-J01C1
MMIC
back-side metallisation U11-D03B9
semiconductor circuit, general U14-H03H
MNOS transistor U12-D02A2
Mobile advertising W05-E03M
Mobile radio systems W02-C03C
broadcasting W01-B05A1M
cellular base station W01-B05A1A
W02-C03C1B
cellular system W02-C03C1A
cordless call point, base station (e.g. CT2)
W01-B05A1B
W02-C03C3B
cordless call point, system (e.g. CT2)
W01-B05A1B
W02-C03C3A
fourth generation telephone system W01-B05A1A
W02-C03C1A
W02-C03C1H
W02-K07C
handoff, cellular W02-C03C1D
handoff, general W02-C03C3D
location determination, cellular W02-C03C1E
location determination, general W02-C03C3F
microcellular W02-C03C1
subscriber roaming W01-E01A
trunked radio system W02-C03C3G
third generation telephone system W01-B05A1A
W02-C03C1A
W02-C03C1G
Mobile radio telephone W01-C01D
Bluetooth® interface W01-A07H2A
W01-C01R
car telephone W01-C01D3B
cellular subscriber set W01-C01D3
W02-C03C1C
cordless call point, set (e.g. CT2) W01-C01D1E
W02-C03C3C
digital short range radio system W01-C01D2
digital interface W01-C01R
direct mode communication apparatus W01-C01D2
fourth generation telephone W01-C01D3G
hand-held W01-C01D3C
hands-free W01-C01G2
i-mode handset W01-C01D3C
W01-C01G6E
multi-band W01-C01D3J
multi-SIM card W01-C01D3K
near field interface W01-A07H2N
W01-C01R
PHS handset W01-C01D1E
portable W01-C01D3C
satellite telephone W01-C01D3E
security W01-C01D3D
TransferJet™ interface W01-A07H2N
W01-C01R
UMTS telephone W01-C01D3G
ZigBee interface W01-A07H2A
W01-C01R
Mode Dependent Directional Transformation (MDDT), video coding W04-P01A4E
Mode selector/converter
optical waveguide V07-F03
waveguide (RF) W02-A06A
Model kits P36-E03
Model vehicles P36-E01
electrical W04-X03E1
Modelling networks W01-A06D
Modelling radio systems W02-C03E5
Modem
connected to telephone system W01-C05B3A
facsimile-modem connected to telephone system W01-C05B3H
integrated with telephone apparatus W01-C01P5
modem interface with computer T01-C03B
modulation and demodulation aspects
W01-A09E
voice over data transmission W01-A09E3
W01-C05B3G
MODFET - see Field effect transistor, with heterostructure U12-D02D2
Modulation
AM/FM combined U23-P05
amplitude U23-G
analogue (general) details U23-P02
angle U23-H
digital modulation/demodulation U23-P01
electromagnetic wave U23-X
frequency U23-H
measurement S01-D08
PAM U22-E01E
PFM U22-E01G
phase U23-H
phase-locked loop, using U23-D01C
PPM U22-E01C
pulse U22-E
PWM U22-E01A
Modulation depth/index measuring S01-D08A
Modulator
data transmission W01-A09E1
optical transmitter W02-C04A1A
radio transmitter W02-G01D
Moisture measurement
capacitive S03-E02C1
gamma ray S03-E06A3
general S03-F09A

- microwave S03-E05A
- precipitation detection S03-D02
- rain presence S03-D02B
- rain presence, non-meteorological S03-D02B1
- rainfall measurement S03-D02A
- thermal S03-E01B
- X-ray S03-E06A3

Molecular beam epitaxy
- apparatus U11-C09D
- method U11-C01A2

Molecular excitation microscopy S03-E04R

Molten carbonate fuel cell X16-C02

Moneybox T05-L05B

Monitoring
- actuators V06-M11M
- adverse weather condition traffic T07-G05
- alarm systems W05-C
- circuit breakers X13-B08
- copier/printer S06-K07B
- computing processors T01-G05C
- control system, general T06-A08
- data exchanges W01-A06A
- during surgery S05-B04
- during surgery, of patient S05-B04B
- electric machines V06-M11M
  X11-J08M
- electric power distribution system X12-H03A
- electric vehicle X21-A05
- environment monitoring T01-G11B
- fuses X13-D01C
- hardware, computing T01-G
- line transmission systems W02-C01D
- measuring non-processing T01-G11
- moulded case circuit breakers X13-D08
- nuclear reactor X14-C02
- numerical controller T06-A04A6
- pattern recognition process T04-D05
- personal calling W05-C
- power monitoring T01-G11A
- power transformer X12-C02B
- processors, computer T01-G05C
- program, computing T01-G05
- pulse U22-D03
- radar systems operation W06-A04E3A
- recording/reproduction T03-K09
  W04-J
- recording/statistical evaluation T01-G05C1
- relays with contacts V03-D06B
- resonators, electromechanical V06-V01E
  V06-V03B
- security systems W04-J01
- signalling systems W05-C
- steam turbines X11-A01X
- stress monitoring T01-G11C
- surgical instrument location S05-B04A
- switchgear X13-E08
- telemetry systems W05-D05
- telephone exchange W01-C02A1
- television station output W02-F04C
- television studio equipment W02-F04A5A
- theft alarms W04-J01
- theft alarms W05-B01
  W05-C
- time division multiplex systems W02-K02B5
- transducers (general) V06-V03B
- transducers, acoustoelectric V06-V03B
- transmission systems W02-C05
- using additional processors T01-G05B
- vehicle traffic T07-A01
- video camera W04-M01D2
- watchdog, computing T01-G05A

Monitoring, alarm signals W05-C

Monochromator - for spectrometer S03-A02A1

Monolithic microwave integrated circuit (MMIC) U14-H03H
- filter W02-A05A2
- microstrip circulator W02-A04F1
- microstrip waveguide W02-A01A3

Monostable pulse generator U22-A04B

MOS capacitor U12-C02A

Mosaic diagram, switchgear X13-E01

MOSFET - see Field effect transistor U12-D02A4

Motherboard, digital computer interface T01-C07C

Motion (shake) compensation in cameras
- photographic (film) camera S06-B02E
- video camera W04-M01D7

Motion compensation in video coding
- hybrid coding W04-P01A4C
- MPEG coding W04-P01A4C
- predictive coding W04-P01A5C

Motional feedback for audio transducer W04-T03

Motor - see Electric machine

Motor racing P36-A03
W04-X01K3G

Motor vehicle - see Vehicle X22

Motor-generator set X11-H09

Motor-generator UPS X12-H02C

Motorcycle Q19-B
X22-P02

Mould inhibitor, for magnetic record carriers T03-A01B5X

Moulded case circuit breaker - see Circuit breaker, moulded case

Mountings
- for IC packages U11-D01A
- in-car electrical equipment X22-X02B
- measurement appts S01-J09
- multilayer, for IC packages U14-H05

Mouse, computer input T04-F02B1
- for telephone W01-C01B8L
- interface with computer T01-C02B1A
- optical T04-F02B1A

Mouth organ P86-A01A1

Mouthpiece V06-V04A4

Movement detection system, for video signal W04-P01A1

Movement of body, measurement
- for medical purposes S05-D01C5
- for non-medical purposes S05-D01C5A

Moving coil meter S01-A

Mower, lawn X27-A01A

MPEG audio signal coding W04-V10G1

MPEG video signal coding
coding circuit W04-P01A4
recording signal processing W04-F01F
W04-P01A4
TV receiver decoder W03-A11D
MRI S01-E02A2
S03-E07A
adaptations to medical equipment for MRI compatability S05-D02B4
coils and waveguides S01-E02A8A
V02-F01G
contrast media S03-E09X
contrast media for medical purposes S05-D02B3
Fourier Transform S01-E02A8C
image enhancement S01-E02A2A
magnet S01-E02A8E
X12-C06
magnet, superconducting-type X12-C05A
measurements for medical purposes S05-D02B
pulse sequences and control and operation S01-E02A8P
signal & image processing S01-E02A8C
MSBVW resonator V06-V01E3
MSF receiver S04-B06
MSFVW resonator V06-V01E3
MSK U23-P01A5
W01-A09B
MSSW resonator V06-V01E3
MTI radar W06-A04A2
Multi-discharge path lamp X26-A01A
construction - see Discharge lamp X26-A02
Multi-standard TV receiver
decoder W03-A11D
novel standard recognition circuit W03-A11B5
picture signal motion detector W03-A11C
scanning format based on detected standard W03-A11B1A
standard recognition/switching W03-A11B
Multichannel access radio system W02-C03C3
Multichannel amplifier U24-G02F2
Multichip modules, high density semiconductor device package U11-D01A6
Multicolour system S06-K01
Multicopy, sheet feeding in printing unit S06-K02A
Multifrequency codes, carrier data transmission systems W01-A09D
Multi-frequency code techniques U23-P01G
Multilayer ceramic PCB mfr. (see also PCB mfr.) V04-R05A1
Multilayer ceramic substrate
manufacture U14-H04B
V04-R07A1
V04-R07P
X12-E01A
material U14-H03B1
V04-R07A1
V04-R07P
material, thick film U11-A05B
structure U11-D01A
U14-H03F1
V04-R07A1
Multilayer PCB mfr. (see also PCB -mfr.) V04-R05A
Multimedia
computer systems T01-J30
interactive broadcasting W02-F10H
multimedia data transfer T01-H07C3D
telephone apparatus W01-C01P1
telephone system W01-C05B2
Multimedia messaging service (MMS)
subscriber telephone aspects W01-C01G6B
telephone exchange aspects W01-C02B7F
Multimeters S01-H04
calibration/testing S01-H01
digital voltage/current measurement S01-D01C1B
probe S01-H03B
resistance measurement S01-D05B1
Multipath reception compensation W02-G03B6
Multiple-tuner broadcast receiver
radio receiver W03-B01D
TV receiver W03-A01D
Multiplex systems
analogue component TV system W02-F06C1
data transmission, FDM W01-A03E5
data transmission, TDM W01-A03C
data transmission, TDMA W01-A03C1
data network transmission, TDMA W01-A06F1G
data transmission, WDM W01-A03E1
code division multiplex system W02-K08
frequency division W02-K01
general W02-K
hybrid W02-K07
OFDM W02-K07C
optical communication W02-C04B4
W02-K04
W02-C04A6
orthogonal W02-K07E
orthogonal FDM W02-K07C
remote control W05-D02
spatial division multiple access (SDMA) W02-K09
statistical W02-K02E
telephone systems W01-B07
time division - see Time division multiplex W02-K02
vehicle X22-K03
electric vehicle X21-K
wavelenth division (WDM), optical W02-C04B4B
Multiplication/division, analogue T02-A04B1
Multiplier
electron - see Electron multiplier V05-K01
frequency - see Frequency multiplier/divider U22-D05A
Multiplying, dividing, data processing T01-E02B
Multipole connector - see Connector
Multiport memories - see Memories, multiport U14-A08B1
T01-H03D
Multiprocessors T01-M02
computer networks T01-M02A1
cooperative T01-M02B
distributed T01-M02A
master-slave systems T01-M02D
parallel/array T01-M02C

Multiprocessors, digital computing
memory management T01-H08
Multiprogramming T01-F02
Multistable pulse generators U22-A04X
Multistep manufacturing processes (for)
capacitors V01-B04B8A
discharge tubes V05-L07A
electrolytic capacitors V01-B01G6A
magnetic record carriers T03-A02B8
optical record carriers T03-B01E3S
resistors V01-A04G1
semiconductor devices U11-C18
Multitasking
task interaction T01-F02C
task restoring/saving T01-F02B
task transfer T01-F02A
T01-F02A1
Multivibrator U22-A04
Municipal solid waste (MSW) disposal
industrial/large scale X25-W01
domestic X27-K
general P43-E
general, by burning P43-E01
general, by burying or dumping P43-E03
general, by treating or converting P43-E05
Muscular force measurement S02-F03A
Musical animation, clock or watch S04-B05A
Musical entertainment systems
jukebox W04-X03A1
karaoke W04-X03A3
musical greeting cards W04-X03C
Musical instrument, electrical W04-U
accompaniment W04-U04C
automatic rhythm generator W04-U04C
composition system W04-U06
construction W04-U04G
digital interface (MIDI) W04-U05
electric guitar W04-U02A
electromechanical sound generation
W04-U02C
electronic tone generator W04-U01A
guitar synthesiser W04-U04J
input/output arrangements W04-U04D
keyboards W04-U04A
memory access (tone generation) W04-U01C
metronome W04-U09
MIDI W04-U05
pick-up W04-U02A1
V06-V04A3
pick-up mounting V06-V02F
V06-V04A3
W04-U02A
reverberation W04-U03E
sampling W04-U01C1
sequencer W04-U06
sound-to-light conversion W04-U08
special effects W04-U03E
synthesiser W04-U03C
tone combination/generation control W04-U03A
training W04-U07
transcription system W04-U06
Musical instrument, general P86-A
accessories P86-A30
air-reed type P86-A01A5
carrying case P86-A30
castanets P86-A05
cello P86-A03C
clarinet P86-A01A1
cleaning P86-A
P86-G
cow bell P86-A05
drum P86-A05
flute P86-A01A5
guitar P86-A03E
harp P86-A03E
keyboard construction P86-T01C
lip vibration type P86-A01A3
manufacture P86-A
P86-M
metronome P86-A30
music stand P86-A30
neck, string instruments P86-T01E
ocarina P86-A01A5
pedal P86-T01C
piano P86-A03A1
recorder P86-A01A5
reed P86-T01A
repairing P86-A
P86-G
saxaphone P86-A01A1
soundbox P86-T01E
string instruments P86-A03
string-tensioning device P86-T01C
tambourine P86-A05
trumpet P86-A01A3
tuning fork P86-A30
violin P86-A03C
xylophone P86-A05
Muting
audio amplifier U24-C05C
gated amplifier U24-G02F1
radio receiver W02-G03B1

N

N-path filter - see Electric filter U25-A01

Nanoelectromechanical device/system
- actuators V06-M06G9
- control, actuators V06-N22A
- electronic switching U21-B01T
- generators V06-M06G8A
- logic circuit U21-C01T
- relays V03-D10A
- resonators V06-V01E, V06-V01K2
- semiconductor device U12-B03F2A
- semiconductor structure U12-B03F2
- semiconductor structure, manufacture U12-C18C
- semiconductor system U12-B03F2B
- sensors S03-H02B, V06-V01K2, V06-V04G
- switches V03-C10A
- transducers(audio) V06-V01K2, V06-V04A

Nano-imprinted magnetic record carrier T03-A01G3

Nano-materials
- battery electrode X16-E01H1
- conductive X12-D01D
- fuel cell electrode X16-E06A1A
- general use V04-X01B1
- insulating, inorganic X12-E01D
- insulating, organic X12-E02D
- magnetic V02-A10
- magnetic, manufacture V02-A10C
- magnetic, novel V02-A10A

Nanorelays U12-B03F2A, V03-D10A
- manufacture V03-D06B1

Nano-structures U12-B03F2
- magnetic film V02-B04

Nano-structures – See Nanoelectromechanical device/system

Nanosensors U12-B03F2A, S03-H02B, V06-V01K2, V06-V04G

Nanoswitches U12-B03F2A, V03-C10A
- manufacture V03-C07A

Nano-wires V06-V01K2

Nappy wetting alarm X27-X01

Natural disasters
- prediction & short term measurement S03-C05
- warning systems / alarms W05-B08

Navigation S02-B08, W06-A
- aids, aircraft W06-B01B1
- aids, ship W06-B01C1
- aids, spacecraft W06-B03F, X22-E06
- beacon systems W06-A01
- dead reckoning systems S02-B08X
  - for motor vehicle X22-E06A
- display aspects S02-B08E
- electric vehicle application X21-C20
- equipment, calibrating, testing S02-B10
- GPS (Global Positioning System) S02-B08C
  - – See GPS W06-A03A5
  - for motor vehicle X22-E06B
- hyperbolic systems W06-A01
- inertial navigation system W06-A07
- inertial sensors S02-B08X
- instrument combinations S02-B11
- missile application W07-A01A
- position fixing W06-A03
- radar systems W06-A04
- receiver integrated with telephone W01-C01P7
- roadside beacons-type, vehicle T07-A05C, W06-A01A, X22-E06C
- satellite based, e.g. GPS W06-A03A
- sonar systems W06-A05
- space vehicle application W06-B03F
- systems using non-radio EM wave reflection W06-A06
- techniques S02-B08
- using computer/processor S02-B08G, T01-J21
- using radio S02-B08A
- vehicle application X22-E06

Navigation systems
- GPS (Global Positioning System) See GPS W06-A03A
- Gallileo W06-A03A
- hyperbolic W06-A01A
- Loran W06-A01A
- Omega W06-A01A
- road traffic information T07-A05C
- vehicle application X22-E06
- vehicle, reception of updated information X22-E06F

NBC suit (protective clothing) P35-A03C

NC T06-A04A

Nd:YAG laser V08-A04C

Near-field systems W02-C02
- auditorium W02-C02G3
- data interface W01-A07H2N
- entertainment W02-C02G3
- hearing aids W02-C02G3A
- inductive loop W02-C02B
- leaky cable W02-C02A
- mine communication W02-C02G1
- selective calling system W02-C02G5, W05-A05C
- smart card data transfer W02-C02G7
- TransferJet™ data interface W01-A07H2N
- tunnel communication W02-C02G1

Needle impact printer, computer S06-F01

Negative feedback for amplifiers U24-G03A

Negative resistance devices U12-B02

Negative resistance FET - see Field effect transistor U12-D02J1

NEMS U12-B03F2
- NEMS actuator V06-M06G9
- NEMS device U12-B03F2A
- NEMS generator V06-M06G8A
- NEMS motor V06-M06G9

NEMS relay V03-D10A
NEMS resonator V06-V01E
V06-V01K2
NEMS sensor V06-V01K2
V06-V04G
NEMS switch V03-C10A
NEMS system U12-B03F2B
NEMS transducer(audio) V06-V01K2
V06-V04A

Nephelometer S02-F05
S02-F06
for measuring contamination S03-E04F1
light scattering S03-E04C
optical fluorescence type S03-E04D
optical transmission type S03-E04B1A
specular reflection type S03-E04B1B

Nerve stimulation S05-A04
measurement S05-D01A

Network (data) W01-A06
access W01-A06E1
access control (protocol) W01-A06F1
addressing T01-N02A1A
ad-hoc T01-N02A1B
W01-A06B8E
alarm transmission W05-B05B6
allocation of resources W01-A06E1L
apparatus testing W01-A06A2A
Bluetooth TM W01-A06B5A
W01-A06C4A
bridge W01-A06G5C
bus configuration W01-A06B1
caching T01-N01D4
circuit switching W01-A06G1
client-server network T01-N02A2C
W01-A06B8A
coaxial cable W01-A06C2A
computer T01-M02A1
computer terminal T01-M02A1A
contention protocols W01-A06F1A
control W01-A06E
control, centralised W01-A06E2A
control, decentralised W01-A06E2B
cross-connect switch W01-A06G5A
data broadcasting system W01-A06E1A
data conferencing system W01-A06E1A
equipment testing W01-A06A2A
fail-safe and standby systems W01-A06A1
fault detection, isolation W01-A06A2
FDDI (Fibre Distributed Data Interface)
W01-A06B2
W01-A06C1
gateway W01-A06G5C
graded service W01-A06E1G
hot-standby system W01-A06A1A
IEEE 802.11 radio link W01-A06C4E
IEEE 802.15 radio link W01-A06C4A
IEEE 802.16 radio link W01-A06C4G
interconnection W01-A06G3
internet T01-N
W01-A06B7
internet protocol (IP) W01-A06F2A
internet protocol telephony (VoIP) W01-C05B4C
internetworking T01-M02A1C
W01-A06G3
intranet T01-M02A1C
W01-A06B7E
IrDA W01-A06B5A
W01-A06C3
ISDN W01-A06B5C
LAN/WAN architecture T01-M02A1C
large scale (WAN) W01-A06B5B
W01-A06B7E
load balancing W01-A06E1L
local area (LAN) W01-A06B5A
medium W01-A06C
metering and billing aspects W01-A06E1E
metropolitan area (MAN) W01-A06B5B
modelling W01-A06D
multicasting T01-N01D5
network operated computer T01-M02A1A
operation and logical structure W01-A06B8
optical fibre W01-A06C1
optical, free space W01-A06C3
peer-to-peer network T01-N02A2E
W01-A06B8C
power line data network W01-A06C6
protocol – see **Network protocol** W01-A06F
radio link W01-A06C4
roaming between diff-standard networks W01-E01A3A
roaming between same-standard networks W01-E01A1A
roaming between wireless networks and mobile phone networks W01-E01A3E
repeater W01-A06G5G
ring configuration W01-A06B2
router W01-A06G5E
routing W01-A06E1J
small scale (LAN) W01-A06B5A
software W01-A06E
star configuration W01-A06B3
structure W01-A06B
storage area T01-N02A2D
switching/connection W01-A06G
TCP/IP W01-A06F2C
testing W01-A06A
testing vulnerability T01-N92B3
tree configuration W01-A06B4
twisted pair W01-A06C2B
usage/operation monitoring W01-A06A3
user privileges/password system W01-A06E1C
T01-N02B1B
UWB/impulse radio link W01-A06C4K
vehicle area networks W01-A06B5A
W05-D07D
X22-K
X22-X
virtual private network (VPN) W01-A06B7G
wide area (WAN) W01-A06B5B

Network protocol
application layer protocol W01-A06F3
Aloha W01-A06F1G
contention protocol W01-A06F1A
conversion W01-A06F7A
CSMA/CD W01-A06F1A
encapsulation W01-A06F7C
Ethernet TM W01-A06F1A
IP W01-A06F2A
network layer protocol W01-A06F2
novel protocol W01-A06F5
polling protocol W01-A06F1C
TCP/1P W01-A06F2C
TDMA W01-A06F1G

token passing protocol W01-A06F1E
tunnelling W01-A06F7C

Neural models for memories - see Memories, neural models U14-B01

Neural network T01-J16C1
analogue computers T02-A04A5
configuration, data processing T01-E05B

Neurological stimulation, measurement S05-D01A
bioelectric currents S05-D01A2
electrocardiograph S05-D01A1
electrodes, for measurement S05-D01A2A
electrodes, for stimulation S05-A02B
Electroencephalogaphy (EEG) S05-D01A2
Electromyography (EMG) S05-D01A2
SQUID S05-D01A2

Neutron
diffraction S03-E06C
radiation measurement S03-G01C
shield for nuclear reactor X14-B02
source V05-E06
using for materials investigation S03-E06

News, Internet T01-N01B4

Newspaper advertising P85-E01J

NFC interface (data transfer) W01-A07H2N

Nickel-cadmium cell X16-B01A1
electrode X16-E05A

Night vision equipment W07-G
goggles W07-G01
IR imager W04-M01E1

Nitridation, insulating thin film formation for semiconductor mfr. U11-C05B1

NMR S01-E02A1 S03-E07C
baggage inspection S03-C02F1
airport W06-B02A5A
railway station X23-S01E
coils S01-E02A8A V02-F01G
coils and waveguides S01-E02A8A
contraband detection S03-C02F1
drug detection S03-C02F1
explosives detection S03-C02F1
Fourier Transform S01-E02A8C
gradient coil V02-F01G1
imaging - see also MRI S03-E07A
magnet S01-E02A8E X12-C06
magnet, superconducting-type X12-C05A
medical, diagnosis S05-D02B
medical, equipment S05-D02B1
medical, image processing S05-D02B2
other spin device measuring details S01-E02A8X
presence detection S03-C02F1
pulse sequences and control & operation S01-E02A8P
sample handling S01-E02A1A
signal processing S01-E02A8C
spinning mechanism S01-E02A1A
waveguides S01-E02A8A

Noise blanker for radio receiver W02-G03B5

Noise cancelling (local) for telephone set W01-C01C3C

Noise cancelling systems (acoustic) W04-V07
control W04-V07C
installations W04-V07A
transducer W04-V07A

Noise cancelling using DSP U22-G03E3A

Noise generators, electrical U23-F05
for radio receiver testing S01-G08B1

Noise reduction
A-D converters - see Analogue-digital converter U21-A03F7G
acoustic cancellation W04-V07
aircraft Q25-N
amplifier (general) U24-G03D1
audio (general) W04-G03
D-A converters-see Digital-analogue converter U21-A02B7G
discrete semiconductor device U11-D03C3A
DSP-based hearing aid W04-Y03G7
electrical instrument S01-H01A1
electronic switching U21-B02F
IC engine Q51-N
integrated circuit U11-D03C3A
logic circuit U21-C03A2B
measurement transducer S02-K02D
pattern recognition T04-D03A
radar W06-A04E5
radio receiver (see **Radio communications receiver**) W02-G03B
railway train Q21-N
ship Q24-N
speech signal (digital processing) W04-V05E
vehicle Q17-N X22-X08
engine Q51-N X22-A12
passenger compartment X22-X08
transmission X22-G03N
video signal (general) W04-P01F1
video signal (recording) W04-F01E
video signal (TV receiver) W03-A04H

Noise suppression
IC engine spark plug X22-A01E1J
mains filter W02-H03
radio receiver W02-G03B
RFI suppression W02-H01

Noise-measuring receiver S01-G08B3

Noise, vibration, harshness reduction
for aircraft Q25-N
for IC engine X22-A03X
for railway train Q21-N
for ship Q24-N
for vehicle Q17-N
for vehicle engine X22-A12
for vehicle passenger compartment X22-X08
for vehicle transmission X22-G03N

Non-aqueous electrolyte lithium-based primary cell X16-A02A
electrode X16-E03A1

Non-aqueous electrolyte lithium-based secondary cell X16-B01F1
electrode X16-E08A

Non-aqueous liquid electrolyte lithium-based secondary cell X16-B01F1A

Non-aqueous solid electrolyte lithium-based secondary cell X16-B01F1C
Non-aqueous electrolyte primary cell X16-A02
electrode X16-E03A
Non-aqueous electrolyte secondary cell X16-B01F
electrode X16-E08
Non-chemical electrical energy storage X16-L
double layer capacitor V01-B01D
X16-L02
flywheel-type, motor-driven X11-J05X
X16-L
storage heater X16-L01
X27-E01A4
superconducting coil X12-C05
X16-L
Non-contact power distribution U24-H02
Non-dedicated record carrier vending machine actuation T05-H02C3
Non-electric telecontrol or telemetry transmission system
hydraulic transmission W05-D06M
infrared (IR) free-space link W05-D06A3
infrared (IR) optical fiber link W05-D06C
mechanical transmission W05-D06M
mud pulse telemetry link W05-D06M1
optical fibre link W05-D06C
optical free-space link W05-D06A3
pneumatic transmission W05-D06M
ultrasonic link W05-D06A5
Non-insulated conductor X12-D02C
high power X12-D02C1
high power, bus bar X12-D02C1A
low power X12-D02C2
low power, audio/video X12-D02C2B
low power, communication X12-D02C2A
low power, control/instrumentation X12-D02C2C
low power, fibres X12-D02C2E
manufacture X12-D07E
manufacture for cable X12-D07E
Non-mechanically varied capacitor - see Variable capacitor V01-B02B
Non-musical sound-producing devices P86-E
alerting (electrical) W05-A02A
bell P86-E01A1
klaxon P86-E01C3
rattle P86-E01A5
siren P86-E01C1
whistle P86-E01C5
Non-rechargeable cell X16-A
Non-reprogrammable stores - see Memories, non-reprogrammable U14-A06B
Non-silicon semiconductor
Non-superheterodyne tuner W02-G03A9
Non-synchronous, DC systems, data transmission W01-A08C
Non-visible image, pattern recognition
T04-D07K
Non-visible output lamp X26-Q
heating X26-B01B
IR X26-Q01
IR, heating X26-B01B
X26-Q01
UV X26-Q03
Non-visible spectrum imaging W04-P01B
Non-volatile ferrorelectric RAMs – see Memories, with ferrorelectric elements U13-C04B1
Non-volatile memories - see ROMs U14-A03B7
U14-A06
Nonlinear optical and electro-optical materials V07-K10
Nonlinear optics V07-K
liquid crystal materials V07-K10A
materials V07-K10
materials, inorganic V07-K10B1
materials, organic V07-K10B2
modulation of light - see Optical modulation V07-K
Nonlinearity reduction
amplifier U24-G03D5
CRT display (TV set) W03-A08A1D
radio receiver W02-G03B4E
Nonvolatile ferrorelectric RAMs - see Memories with ferrorelectric elements
U14-A03F
Notch filter
digital U22-G01B4
distributed constant type W02-A05K4
lumped constant type U25-E05D
Notebook computer T01-M06A1
computer architecture T01-M06A1
Novelties P36-E15
W04-X03C
Nozzles for spraying apparatus P42-A
P42-T01A
NQR S01-E02A3
S03-E07G
baggage inspection S03-C02F5
coils and waveguides S01-E02A8A
contraband detection S03-C02F5
drugs detection S03-C02F5
explosives detection S03-C02F5
Fourier Transform S01-E02A8C
prospecting S03-C02F5
signal processing S01-E02A8C
Nuclear cell X14-E
Nuclear diagnosis, medical S05-D02C
Nuclear energy battery X14-E
Nuclear fuel X14-B04
bundle X14-B04X
cladding X14-B04X
core X14-B05
element, manufacture X14-B04A
handling X14-C03
material X14-B04A
pin X14-B04X
reprocessing X14-D
rod X14-B04X
rod, manufacture X14-B04A
spacer grid X14-B04X
tube X14-B04X
Nuclear fusion reactor X14-A03
cold fusion-type X14-A03A
electrolysis-type X14-A03A

plasma process X14-A03
X14-F01

Nuclear imaging - see also under X-ray
S03-G02B3
medical S05-D02C
video camera W04-M01F3

Nuclear Magnetic Resonance - see NMR

Nuclear power plant X14-C05
cable installation X14-C05X
control X14-C05B
measurements X14-C05C
measurements, reactor in-situ X14-C02
monitoring X14-C02
personal radiation monitor X14-C05X
safety suit X14-C05X
for ship Q24-E02E
simulator X14-C05X

Nuclear Quadrupole Resonance - see NQR

Nuclear radiation
absorption, materials investigation S03-E06A
analysis S03-E06
appts. details, materials investigation
S03-E06H
beam measurements S03-G02C1
beam polarisation measurement S03-G02C1A
calibration/compensation/testing S03-G05
counting tube S03-G02B2A
cross section measurement S03-G02C1C
detection system, materials investigation
S03-E06H5
diffraction, materials investigation S03-E06C
dosimeters S03-G02A
flaw detection, absorption S03-E06A1
flaw detection, diffraction/scattering S03-E06C1
half-life measurement S03-G02C5
integrating detectors S03-G02A
ionisation chamber S03-G02B2C
measurement S03-G05
measuring S03-G
microscopes S03-E06B1
neutron flux measurement S03-G01C
NMR, medical S05-D02B
picture forming, general S03-E06B
prospecting S03-C03
protection, materials investigation S03-E06H7
radiation source, materials investigation
S03-E06H1
recording/processing particle tracks S03-G01A
scattering, materials investigation S03-E06C
scintillation detectors S03-G02B1
secondary emission detector S03-G02B2E
semiconductor detector S03-G02B2G
shielding, materials investigation S03-E06H7
specimen positioning, materials investigation S03-E06H3
spectrometer S03-G02C3
stimulable phosphor sheet S03-E06B3
tomography S03-E06B
X-ray fluorescence S03-E06D
X-ray photography S03-E06B5

Nuclear reaction containment X14-B01

Nuclear reaction control X14-C01

Nuclear reactor X14-A
advanced gas cooled (AGR) X14-A02
boiling water (BWR) X14-A02
control rod X14-C01
control material X14-C01
cooling X14-B03
core structure X14-B05
decommission X14-D
decontamination X14-D
dosimeter badge X14-C05X
electricity generation X14-C05A
emergency protection X14-B02
fast breeder (FBR) X14-A01
fast fission X14-A01
fuel assembly X14-B04X
fuel element X14-B04
fuel element manufacture X14-B04A
fuel handling X14-C03
fuel reprocessing X14-D
fuel support X14-B05
fusion X14-A03
fusion, cold X14-A03A
maintenance/service/repair X14-C06
manufacture X14-C04
measurement X14-C02
measurement, in-situ X14-C02
mechanical energy X14-C05A
moderator X14-B05
moderator material X14-B05
monitoring X14-C02
neutron absorber X14-C01
poison rod X14-C01
power plant X14-C05
power plant, control X14-C05B
pressure vessel X14-B01
pressurised water (PWR) X14-A02
probe X14-C02
radioactivity measurement X14-C02
reactivity measurement X14-C02
shielding X14-B02
temperature measurement X14-C02
testing X14-C02
thermal X14-A02
waste treatment/disposal X14-D

Nuclear reactor component X14-B
cooler X14-B03
core shroud X14-B05
core structure X14-B05
fuel assembly X14-B04X
fuel element X14-B04
fuel support X14-B05
moderator X14-B05
neutron shield X14-B02
pressure vessel X14-B01

Nuclear reactor process X14-A
cold fusion X14-A03A
fast breeder X14-A01
fast fission X14-A01
fusion X14-A03
thermal X14-A02

Numerical control - see Program-control system T06-A04

Nurse call system S05-G02D

Nursing equipment S05-G02B
hospital beds S05-G02B1
hospital monitor S05-G02B2
life support systems S05-G02B3
monitoring patients at home S05-G02B2A

portable patient monitor S05-G02B2B
respiratory gas delivery systems S05-G02E
Nyquist diagram S01-D05C

O

Object-based program control T01-F07
Oboe P86-A01A1
Ocean currents – power generation from – X15-C
Ocean thermal energy conversion X15-C
Oceanography S02-B04
S03-C01C1
OCR (Optical Character Recognition) T04-D04
Odometers S02-B12A
Office automation T01-J11D
Office furniture P25
Offset reduction
amplifier U24-G03F
digital filter U22-G01X
digital signal processing U22-G09
direct conversion radio receiver W02-G03A8A
W02-G03B4G
Ohmic heating X25-B01
Ohmic, Schottky contact formation, semiconductor mfr. U11-C05E1
Oil circuit breaker
with built-in arc control-type X13-B02
with separate arc control-type X13-B03
Oil prospecting S03-C
Oil-filled heater, electric X27-E01A2
OLED see LED U12-A01A1X
for lighting application X26-J
One-part connector, electronic V04-A
V04-B
One-time programmable memories - see ROMs, one-time programmable U14-A06B
Open bit line architecture - see Memories, interconnection layout U14-C01
Open loop numerical control system T06-A04A9
Open systems interconnection (OSI) W01-A06F
Operating theatre equipment S05-G02C
Operation cycle counter, for maintenance applications T05-G02A
Operation, medical surgery S05-B
Operational amplifier
amplifier circuit implementation U24-G04C
amplifier per se U24-G02A5
Bi-FET U13-B03
U24-G04A3
current mode operation U24-G02A5C
offset compensation U24-G03F
pulse generation (using) U22-A02E
pulse shaping (using) U22-D10F
U22-D10X
Optical
alarm link, centralised signalling W05-B05B4
antitheft alarms W05-B01C2B
audio-video recording and reproduction W04-C
burglar alarms W05-B01C2A
cables - see Optical cable V07-F01B4
card, digital T04-C02

coherence tomography S03-E04C3
communication systems W02-C04
computerised tomography S03-E04C3
connectors, permanent V07-G10B
conversion of sensor output S02-K03B
coupling V07-G10D
data network, fibre W01-A06C1
data network, free-space W01-A06C3
data processing T01-E05A
deflectors V07-K05
digital mark reading T04-A03B
digital marking T04-A02B
filters V07-F02B
flaw detection S03-E04F2
gratings V07-F02B
intruder alarms W05-B01C2A
interface, free-space W01-A07H3
interface, optical fibre W01-A07E
W01-A07H4
line intensity measurement S03-A02A
links, free space, networks W01-A06C3
logic V07-K06
masks, semiconductor lithography U11-C04E2
measurement of dimensions S02-A03
measurement of fibre-optic parameters
S02-J04A1A
V07-J
microscope S02-J04B1
microscopy S03-E04R
mode selector/converter V07-F03
modulation - see Optical modulation V07-K
multiplexer V07-K04
non prospecting logging S03-C09
optrodes V07-X
polarisers V07-F02B
prospecting S03-C04A
radar – See Optical radar W06-A06
record carrier - see Optical record carrier
T03-B
remote control, free-space W05-D06A3
W05-D08C
remote monitoring, free-space W05-D06A3
W05-D08E
resonator for laser V08-A01A
signal transmission, telemetry/telecontrol, free-space link W05-D06A3
signal transmission, telemetry/telecontrol, optical fibre link W05-D06C
smoke detection S03-E04C1
W05-B02A1
time domain reflectometry S03-E04C
transducers S02-K03B
waveguide sensors V07-X
waveguides - see Optical waveguides
V07-F01
wavelength measurement S03-A09

Optical amplifier V07-K01C
repeater application W02-C04A5A
semiconductor U12-A02C3
V07-K01C1
testing S02-J04A1C
with optical fibre V07-K01C2

Optical apparatus, testing S02-J04A

Optical bistable V07-K06

Optical cable
installing/installations - see Optical waveguides V07-H
manufacture V07-F01B4B
repair V07-H01
structure V07-F01B4A

Optical card
carrier per se T03-B01D3
T04-C02
vending machine actuated by T05-H02C5B

Optical Character Recognition T04-D04

Optical communications
anti-dispersive transmission W02-C04B7
automatic gain control (RX) W02-C04A3C
data network, fibre W01-A06C1
data network, free-space W01-A06C3
data transmission (general) W01-A07E
distortion reduction W02-C04A7E
dispersion compensation W02-C04A7J
diversity control W02-C04A7G
equalising W02-C04A7A
free space W02-C04B2
IrDA interface W01-A07H3
IrDA LAN W01-A06B5A
W01-A06C3
mobile W02-C04B3
mode multiplex systems W02-C04B4
multiplexing W02-C04A6
noise reduction W02-C04A7C
optical amplifier W02-C04A5A
optical fibre W02-C04B1
optical selection for telephony W01-B05C
polarisation control W02-C04A7G
receiver W02-C04A3
repeater W02-C04A5
repeater optical amplifier W02-C04A5A
switching W02-C04A6
telecontrol/telemetry, optical fibre link
W05-D06C
telecontrol/telemetry, free-space link
W05-D06A3
testing W02-C04C1
transceiver W02-C04A4
transmission using solitons W02-C04B7
transmitter W02-C04A1

Optical computer
analogue T02-A03B
digital T01-M06D

Optical couplers V07-G
aligning V07-G02
beam focussing, shaping V07-G04
coupling using optical elements, e.g. lenses
V07-G10D
detachable V07-G10A
evanescent V07-G11
fixing light guide separation V07-G03
fused biconical taper V07-G11
fused connectors V07-G10B
multi-fibre with mixing rod V07-G11
multiport V07-G11
preparing optical fibre ends, cutting, polishing, stripping V07-G01
rotary V07-G12
splices V07-G10B
star coupler V07-G11
three port V07-G11

to lasers/LEDs U12-A01C
to lasers/LEDs/photodetectors V07-G10C
to thin film waveguide V07-G10D
two port connectors V07-G10

Optical disk
carrier T03-B01
container T03-H01A6B
drive T03-B10A
dual deck optical disk player/recorder W04-C10A1K
reading circuitry T03-B06C W04-C06
recorder/player W04-C10
recording T03-B
signal recording format T03-B05 W04-C05
testing during manufacture T03-B01E7B
writing circuitry T03-B06A W04-C06

Optical elements P81
attenuator V07-F02
beam profile correction V07-F02
condenser P81-A13
deflectors, using diffraction grating V07-F02B
deflectors, using mirrors V07-F02A
diffraction grating P81-A07 V07-F02B
diffraction grating, for semiconductor lithography P81-A07 U11-C04D2
filters P81-A05 V07-F02B
gratings P81-A07
lenses P81-A01 V07-F02A
mirrors P81-A03 V07-F02A
polarizers P81-A15 V07-F02B
prisms P81-A11 V07-F02A
reflectors P81-A03 V07-F02A
refractors P81-A01 V07-F02A

Optical fibre
active element coupling V07-G10C
aligning V07-G02
applications V07-N
arrays V07-F01A1C
beam shaping, expanding V07-G04
bundles V07-F01A1B
cable - see Optical cable V07-F01B4
cable television W02-F03A3
chemical sensors V07-X
communications system W02-C04B1
connectors - see Optical couplers V07-G10
cutting V07-G01
data networks W01-A06C1
dispensers V07-H01
displacement sensors V07-X
dust-proof V07-F01B1A
endoscope S02-J04B3C V07-N02
ferrules V07-G02A
fibrescope S02-J04B3A
graded index V07-F01A1
gyroscopes S02-B07B V07-N01
installing, installations - see Optical waveguides V07-H
interferometer S02-A03A V07-N01
laser V08-A04C2
lighting application V07-N03 X26-G
manufacture methods V07-F01A3A
manufacturing equipment V07-F01A3C
material (e.g. glass, plastics) V07-F01A3B
material, nonlinear V07-K10B
material, nonlinear, inorganic V07-K10B1
material, nonlinear, organic V07-K10B2
measurement of optical characteristics S02-J04A1A
measurements of fibre characteristics V07-J
networks W01-A06C1
orthogonaly intersecting V07-G10E
packages, modules V07-G13
polarisation independent V07-F01A6
polarisation maintaining V07-F01A1A
polishing V07-G01
preform V07-F01A2
preparing ends of V07-G01
protective coating V07-F01B1
repair, maintenance V07-F01B2
sensors V07-F01B1A V07-N01
single mode V07-F01A1A
splices V07-G10B
step index V07-F01A1A
storrage V07-H04
stripping protective coating V07-G01
structure V07-F01A1
tapes V07-F01A1D
terminations V07-G10

Optical filter
CCD imager U13-A02X
display (general) W05-E05A
image sensor with photodiode/photoconductor/phototransistor U13-A01F
optical filter V07-F02B
light diffusion film V07-F02B
retardation film V07-F02B
manufacture, for semiconductor device, LCD U11-C18D
TV receiver display W03-A08E1
video camera W04-M01C3

Optical heads, recording T03-B02B
beam splitter T03-B02B7A
diffraction gratings T03-B02B7G
focusing T03-B02A1C
harmonic generator T03-B02B7E
head cleaning T03-B02B8A
head manufacturing T03-B02B8C
head positioning T03-B02A
head testing T03-B02B8E
lens T03-B02B5
light source T03-B02B1
optical system T03-B02B
photodetector T03-B02B3
polariser T03-B02B7C

positioning T03-B02A
super-resolution optical aspects T03-B02B6
tilt correction T03-B02A4

Optical microscopy S03-E04R
molecular exciton microscopy S03-E04R

Optical modulation V07-K
amplification V07-K01C
amplitude control V07-K01
colour control V07-K04
deflection V07-K05
electo-optical for single beam V07-K01A1
electro-optic modulator, semiconductor U12-A02C3 V07-K01A
electro-optical effect V07-K01A
Faraday effect V07-K03
frequency control V07-K04
Kerr effect V07-K01A
light amplitude control, using shutters V07-K01B
light intensity control V07-K01
light intensity control, using electro-optical devices V07-K01A
light intensity control, using shutters V07-K01B
light valves V07-K01A2
magneto-optic control V07-K03
parametric oscillation V07-K04
phase control V07-K02
phase shift V07-K02
Pockels effect V07-K01A
polarisation control V07-K03
pulse shaping V07-K02
Sagnac effect V07-K02
scanning V07-K05
spatial V07-K01 V07-K01A2 V07-K05

Optical mouse T04-F02B1A

Optical multiplex system W02-K04

Optical phase difference measurement S03-A09

Optical printing S06-E
testing S03-E04

Optical pumping - see Laser pumping, optical V08-A02B

Optical radar
applications W06-A06H
calibrating W06-A06C3
determining target position W06-A06D1
display W06-A06C3
for air, land and sea vehicles W06-A06H1
for aircraft W06-A06H1B
for anti-collision purposes W06-A06H1K
for industrial applications W06-A06H8
for land vehicles W06-A06H1A
for meteorological applications W06-A06H2
for object identification W06-A06B5
for ships W06-A06H1C
for tracking, target seeking W06-A06H5
for vehicle/aircraft identification W06-A06B1
jamming/anti-jamming W06-A06C8
mapping/imaging W06-A06H3
monitoring W06-A06C5
primary W06-A06D
receiver circuit W06-A06C2
security/coding aspects W06-A06B3
testing W06-A06C5
transmitter circuit W06-A06C1
using different response medium W06-A06B7
using relative movement W06-A06D2
weather lidar W06-A06H2

Optical radiation detector S03-A01B
array S03-A01B7
capacitive S03-A01B3
ferroelectric S03-A01B3
photoresistive S03-A01B5
photovoltaic S03-A01B1

Optical record carrier
antireflective layers T03-B01C
card carrier T03-B01D3
CD-ROM T03-B01D1 T03-B01D7A
characterised by (recording) process T03-B01B5
characterised by ablation recording T03-B01B5A
characterised by combination of recording methods T03-B01B5J
characterised by deformation recording T03-B01B5C
characterised by interaction recording T03-B01B5E
characterised by multi-wavelength recording process T03-B01B5J
characterised by orientation change recording process T03-B01B5X
characterised by phase transition recording T03-B01B5G
characterised by reversible recording process T03-B01B5L
characterised by type of carrier T03-B01D
disk carrier T03-B01D1
double substrate T03-B01A5A
DRAW T03-B01D7A
DVD T03-B01D1 T03-B01D6
erasable T03-B01D8
groove details T03-B01F5
labelling layers T03-B01C8
layer arrangements T03-B01H
light-sensitive layers T03-B01B
manufacture - see Optical record carrier mfr. T03-B01E
multilayer T03-B01D6
multiple light-sensitive layers T03-B01B5N
multiple wavelength-sensitive layers T03-B01B5P
non-erasable T03-B01D7
physical recording format T03-B01F
pit details T03-B01F5
protective layers T03-B01C
read-only T03-B01D7A
recycling and destroying T03-B01R
reflective layers T03-B01C
substrate T03-B01A
super resolution carrier T03-B01D4
tape carrier T03-B01D5
WORM T03-B01D7C

Optical record carrier mfr. T03-B01E
cleaning T03-B01E3L
coating application T03-B01E3J
coating equipment T03-B01E1B
mastering equipment T03-B01E1M
master production T03-B01E3A
metal master/mother production T03-B01E3C
multistep process T03-B01E3S

packing manufactured carriers T03-B01E3P
polishing T03-B01E3L
pressing T03-B01E3G
shipment T03-B01E3P
stamper T03-B01E1A
stamper cleaning/polishing T03-B01E3L
stamper production T03-B01E3E
substrate adhesion (multi-substrate) T03-B01E3X
testing T03-B01E7

Optical recording
record carrier - see Optical record carrier T03-B01

Optical recording equipment
audio disk player/recorder W04-C10A1
audio/video W04-C
beam splitter T03-B02B7A
card player/recorder T03-B10C T03-N05 W04-C10C
carrier positioning T03-B03
compensation system for head positioning T03-B02A5
determining format/type of carrier T03-B05K
disk player/recorder T03-B10A W04-C10A
diffraction gratings T03-B02B7G
focus drive motor T03-B02A1A
focus servo T03-B02A1C
focussing T03-B02A1
format T03-B05F
harmonic generators (optical) T03-B02B7E
head T03-B02B
head cleaning T03-B02B8A
head manufacture T03-B02B8C
head positioning T03-B02A
head positioning mounting rails T03-B02A3B
head testing T03-B02B8E
lens T03-B02B5
light guide T03-B02B7 V07-F01
light source T03-B02B1
light source control T03-B02A7
multilayer disk drive T03-B10A1
multiple head drive T03-B10M
multiple head systems T03-B02A8
multiple optical path T03-B02B7M
optical drive T03-B10
optics T03-B02B5 T03-B02B6 T03-B02B7
optimisation methods T03-B05A1
photodetector T03-B02B3
polarising optics T03-B02B7C
reading/writing T03-B06 W04-C06
recording methods T03-B05A W04-C05
re-recording T03-B07
signal recording format T03-B05 W04-C05
super-resolution optics T03-B02B6
tape player/recorder T03-B10E W04-C10B
track access servo T03-B02A3C
track following servo T03-B02A3D
track selection/following drive motor T03-B02A3A
video disk player/recorder W04-C10A3

Optical switching V07-G15
proximity (electronic) U21-B02C3
using electro-optical devices V07-K01A
using shutters V07-K01B

Optical testing
absorption with light modulation S03-E04A5A
appts. (see also Optical testing appts.) S03-A
atomic absorption spectrometry S03-E04A5G
attenuated total reflection S03-E04A5S
bioluminescence S03-E04E
calibration S03-E04P
chemical indicator- observing S03-E04E
chemiluminescence S03-E04E
colour/spectral properties S03-E04A
compensation S03-E04P
contamination detection S03-E04F1
cuvettes S03-E04X
dichroism S03-E04B5
diffraction S03-E04B5
electroluminescence S03-E04D
electrooptical detection S03-E04A1
ellipsometry S03-E04B5
examination of jewels S03-E04F3
flaw detection S03-E04F2
fluorescence S03-E04D
granular solids S03-E04H
impurity detection S03-E04F1
interference S03-E04B5
lenses and lens systems S02-J04A5
light guide structures S02-J04A1
light transmission S03-E04B1A
materials, using radiation at two wavelengths S03-E04A4
microscopy S03-E04R
monitoring of moving sheets S03-E04G
moving fluids S03-E04H
optical fibre S02-J04A1A
optical fibre/guide structures V07-J
photoelectric effect S03-E06D
polarisation S03-E04B5
properties of materials S03-E04
Raleigh scattering S03-E04C
Raman scattering S03-E04D1
Raman spectrometry S03-E04D1
refraction S03-E04B5
refractive index S03-E04B5
scattering in flowing fluid S03-E04C1
scattering in material in container S03-E04C2
scattering/diffuse reflection S03-E04C
specular reflectivity S03-E04B1B
surface plasmon resonance S03-E04B5
testing equipment S03-E04P
turbidity S03-E04B1A
Tyndall scattering S03-E04C
wavelength dependent absorption S03-E04A5

Optical testing appts. S02-J04B
colorimeter S03-A02C
endoscope S02-J04B3C
endoscope, for medical purposes S05-D04
fibrescope S02-J04B3A
microscope S02-J04B1
polarimeter S03-A02C
spectrometer S03-A02
spectrophotometer see also optical testing S03-A02

Optical Time Domain Reflectometry S03-E04C
optical fibre testing S02-J04A1A V07-J
Optical waveguides V07-F01
clamps V07-H02
conduits V07-H03
dispensers (for installing) V07-H01
distribution boxes V07-H02
ducting V07-H03
feedthroughs V07-H03
ferrules V07-G02A
fibres - see optical fibre V07-F01A1
fittings V07-H02
installations V07-H03
installing, excess management V07-H04
installing, method/equipment V07-H01
integrated sensors V07-F01A5S
manufacture methods V07-F01A3A
manufacturing equipment V07-F01A3C
measurements of guide characteristics V07-J
mode selector/converter V07-F03
packages, modules V07-G13
planar V07-F01A4
polarisation independent V07-F01A6
reels V07-H04
repair, maintenance V07-F01B2
rod V07-F01A
slab V07-F01A4
splice cases V07-H02
splicing - see Optical couplers V07-G10B
splicing equipment V07-H01
structures V07-F01A
thin film V07-F01A5
Optics (printer) S06-D03 S06-E03B
Optimum control system T06-A05
using algorithms T06-A05C
Opto-electronic devices U12-A
Opto-electronic integrated circuit U13-D04A
Opto-electronic integrated circuit manufacture U11-C18B4
Opto-electronic logic circuit U21-C01G
Opto-receiver amplifier U24-G01A5
Optocouplers U12-A02C1
Optoisolators U12-A02C1
Order telegraph W05-A04C
Organ, musical instrument
electronic W04-U01
pipe P86-A01C1
reed P86-A01C3
Organic photoconductive layer S06-E01A1
Organic semiconductor devices U12-B03C
film deposition U11-C01J5
light emitting diodes with organic layers U12-A01A1E
Organiser T01-J11F T01-N03A3
Orientation
measurement for surveying and navigation S02-B05A
Orientation detection using pattern recognition T04-D07D5
Orientation flat, semiconductor wafer positioning U11-F02B
Orientation switch V03-C06C
Orthogonal multiplex systems W02-K07E
Oscillator
clock or watch timing source S04-B02
crystal U23-A01A
dielectric resonator U23-A01B2
LCR U23-A01B
LCR distributed constant elements U23-A01B2
LCR lumped constant elements U23-A01B1
MEMs U23-A01A2
microwave U23-Q
negative resistance type U23-A02
output control U23-E01
quartz crystal U23-A01A
receiver local oscillator W02-G03A7
SAW type U23-A01A1
spin torque (STO) U23-A05
sinusoidal U23-A
temperature compensation U23-E05
transit time U23-A02
transmitter W02-G01A1
tunnel diode U23-A02
Oscilloscope S01-C01
probe S01-H03B
OSD for recording appts. W04-J03C
OSD for TV receiver W03-A13G
channel number display W03-A01C W03-A13G
OSI layer protocol W01-A06F
Osmosis measurement S03-F04
Osmotic power generation X11-B09 X15-C
OTDR - See Optical Time Domain Reflectometry
Output control, X-ray appts.
incorporating protection features V05-E02C5
limiting output level V05-E02C5C
for flash operation V05-E02C1
Oven
combination X27-C07
electric X27-C02
electric, using halogen lamp X27-C02A
fan-assisted electric oven X27-C02C
industrial cooking / baking equipment X25-P01A
furnace, see Furnaces
microwave - see Microwave oven X27-C01
toaster, grill X27-C03B
Oven control, oscillators U23-E05
Overcurrent protection X13-C01A
Overhead distribution / power line X12-G05
railway X23-A03A
Overhead transmission line connector/fitting - see Cable
Overload protection
electric power system X13-C01A X13-C04A
electronic circuits U24-F

telephone circuits W01-C08A
transducers, general S02-K02C
transducers, pressure measurement S02-F04E
Overmodulation avoidance (TX) W02-G04B1
Oversampling
AD conversion U21-A03F6B
AD converter architecture U21-A03A
Overspeed protection for motor X13-C02 X13-C04C
Overstress indicator, PCB, manufacture V04-R20
Overvoltage protection X13-C01C
Ovshinsky-effect devices U12-B02
Oxidation, insulating thin film formation for semiconductor mfr. U11-C05B1
Ozone
manufacture X25-X04
removal, in printer S06-K06B
Ozoniser X12-F03
air conditioning X27-E01B2
for vehicle X22-J02E3

P

P-n junction, IC component isolation U11-C08A1
PA systems W04-S05 V06-V04A5
amplifiers W04-S05A
microphones W04-S05C
mixing desk W04-S05A
stands W04-S05C
wireless microphones W04-S05C1
Pacemaker, heart S05-A01A
control aspects S05-A01A5
demand type S05-A01A1
electrode S05-A02A
power supplies S05-A01C
remote programming S05-A01A5A
Packages for semiconductor devices U11-D01
assembling U11-E
assembly U11-E02A2
attaching covers, sealing device U11-E02A2
attaching leads U11-E01
bare chip mountings U11-D01A9
card type U11-D01A7
carrier tapes U11-D03A1B
ceramic type U11-D01A1
chip on board (COB) U11-D01A3A
chip/substrate connection, hybrid circuits, multichip package U14-H05
die bonding U11-E02A3
discrete device U11-D01B
dual-in-line (DIP) U11-D01A1
electromagnetic shielding U11-D01C5
encapsulants U11-A07
encapsulated U11-D01A1
encapsulation U11-E02A
encapsulation for hybrid, multichip packages U14-H05 U14-H04B
flip chip U11-E01C
forming lens on package U11-E02A9
gang bonding U11-E01B
glob top U11-D01A3A
high density U11-D01A6
high frequency package U11-D01A4
holders U11-D01Q
hollow type U11-D01A1
hybrid circuits U14-H05
input/output pad layout U11-D03C1A
lasers U12-A01B3 V08-A04A
lead frame type U11-D01A1
lead frames U11-D03A1A
light emitting diodes U12-A01A4
light emitting diodes (white light) U12-A01A4A
marking U11-E02B3
memories U14-A10
metallic type U11-D01A1
moisture barrier package adaptation U11-D01C9
multichip modules U11-D01A6
phototransistor, photodiode or photoresistor U12-A02B3
pin insertion type U11-D01A1
power supply U11-D03C1A
protection against electrostatic discharge U11-D01C3

protection against radiation U11-D01C2
protection from inspection, reverse engineering U11-D01C3
protection fuses inside packages U11-D03C1B
resin encapsulation U11-E02A1
sealants U11-A07
short circuit prevention U11-D01C9
solar cell U12-A02A1
substrates U11-D01A
substrates, multilayer U14-H03F
TAB packages U11-D01A1
U11-D01A3
tape automated bonding U11-E01B
terminals, pins with special shape U11-D03A3
testing (air tightness, encapsulation moisture resistance) U11-F01E
thermal protection U11-D01C6
thin film U14-H01D
transport, carrier lines U11-F02A4
wafer scale U11-D01A8
window structures for ROMs, imagers U11-D01C1
wire bonding U11-E01A
zigzag in line (ZIP) U11-D01A1

Packaging Q31-Q34
X25-F03A
apparatus Q31
X25-F03
AV equipment W03-G10G
bottling Q31-A01A
X25-F03A
electrical equipment X25-F03A1
electrical package X25-F03A3
electronic device (general) V04-X01A
general V04-X01A
goods being packaged Q34
materials Q33
method Q31
television W03-A19G
tobacco packaging P15-T04

Packet data transmission W01-A03B
assembler/disassembler (PAD) W01-A03B
GPRS mobile phone aspects W01-C01D3
W01-C01G6G
GPRS system aspects W01-B05A1A
W01-C05B3J
W02-C03C1A
Push to talk over packet network, mobile phone aspects W01-C01D3C
W01-C01G6H
store and forward switching W01-A06G2

Packet switching, general and audio/video W02-K03

Packing/Unpacking X25-F03A1
control T06-D15
X25-F03A
food packing / canning X25-P01X

Pad grid array, semiconductor package
U11-D01A3
U11-D01A5

Pad, semiconductor terminal U11-D03A2

PAFC X16-C04

Pagers W05-A05C1A
receiver details W02-G03
transceiver (answer-back) W02-G02A3

Paging centre W05-A05C1E

Paging system W05-A05C2
radio system aspects W02-C03C3
selective call (radio) aspects W01-B05A5
telephone exchange aspects W01-C02B7A
telephone network aspects W01-C05A

Pain threshold sensing S05-D01X

Paint stripper X25-X
X27-X

Paintball (sport/leisure) P36-A04
W04-X01K4E

PAL - see Logic arrays, integrated circuit programmable logic arrays U13-C04C

Pancake, for magnetic record carrier storage
T03-A02D5

Panel, gas discharge display V05-A01

Panoramic receiver S01-D03C1

Paper
analysis S03-E14G
book binding X25-T
cardboard manufacture X25-T09B
decurling, in electrophotographic appts S06-K02E
dielectric, treatment and manufacture S06-E01X
electronic W05-E10
for computer ink jet printer S06-G05
heat sensitive for computer printer S06-H01A
jam clearing, in copier S06-k02B
manufacture X25-T09
other paper industry aspects X25-T09G
paper and envelope handling X25-F02A
paper manufacture X25-T09A
paper manufacture, control T06-D03A
paper shredding / cutting X25-T09C
photosensitive, for computer printer S06-E01
press X25-A02A
recycling S06-K04A
recycling processes / systems X25-W04
shredding P41-A04
P41-V12
T04-X
X25-J
X27-A02C
stapling, binding in copier S06-K05A
thermal, for computer printer S06-H01

Paper, feeding
conveying/feeding arrangements P74-C09
printer, sheet feeding S06-K02
media feeding T04-J01

Paper making
boxes P72-B01
cartons P72-B02
control T06-D03A
X25-T09
corrugated P72-B07
cups P72-B03
electrophotography S06-E01X
envelopes P72-B05
embossing/corrugating P72-A07
manufacturing equipment/machinery P72-A15
paper bags P72-B06

tubes/cylinders/cones P72-B04
types of paper articles and shapes P72-B
types of paper working P72-A
Paper recycling P72-A10
X25-T09G
X25-W04
printer S06-K04A
Paper shredder P41-A04
P41-V12
T04-X
X25-J
X27-A02C
Paper towel dispenser X27-X
X25-F03
PAPR (peak to average power ratio control) W02-G04B1
Parabolic aerial reflector W02-B03B1A
Parachutes W06-B09
Parallax-based 3D video display W03-A08E8
W03-A12A
Parallel bus logic interface U21-C02C
Parallel-series code conversion - see Code conversion, parallel/series U21-A05B
Parametric audio systems W04-S05P
Parity error detection
data recording T03-P01A
data transmission W01-A01B1A
digital computer T01-G01A1
general U21-A06A2
Parking system
control T07-F
meter T05-G03A
Parsing T01-J11A1
mark up language T01-J11C3
T01-N03B2B
Particle accelerator X14-G
cyclic X14-G02
linear X14-G01
Particle beam treatment, semiconductor
U11-C03B
U11-C03E
Particle counter S03-F06C
Particle detector V05-H
Particle separator tube V05-J01
combination with chromatography appts.
V05-J01K
control V05-J01M
detection system V05-J01J
interface with other equipment V05-J01K
ion-optical systems V05-J01G
ionising arrangements V05-J01E
monitoring V05-J01M
sample introduction arrangement V05-J01C
Particle size measurement S03-F05C
Particle spectrometer
combination with chromatography appts.
V05-J01K
control of V05-J01M
detection systems V05-J01J
interface with other equipment V05-J01K
ion-optical systems V05-J01G
ionising arrangements V05-J01E
monitoring V05-J01M
sample introduction arrangement V05-J01C
Particle trapping in disk drives T03-F02G1
Party line selection, telephone W01-B04
Party line system, telephone W01-C04
Pass-fail test, production line T05-E
Passivation insulating layer, for semiconductor manufacture U11-C05B9A
Passwords
call sceening, subscriber end W01-C01F5
computer system T01-N02B1B
data networks W01-A05B
W01-A06E1C
Paste dielectric for electrolytic capacitor V01-B01B5
Pasteurization – see Milking, milk processing
X25-P01C
Patient
monitoring during surgery S05-B04
surgical instrument monitoring S05-B04A
table, positioning for radiation diagnosis
S05-D02E
Pattern generator (video) W04-M07
Pattern recognition T04-D
character containing code marks T04-D01
colour T04-D08
detecting defect in pattern T04-D07A
detecting movement T04-D07D1
detecting position or orientation T04-D07D5
edge recognition T04-D03B
hand written character T04-D07E
identification of items T04-D07C
image acquisition T04-D02
image preprocessing T04-D03
noise reduction T04-D03A
non-visible image T04-D07K
recognition per se T04-D04
sorting objects T04-D07B
system error detection T04-D05
vehicle licence plate T04-D07C
T07-A03C5A
Pattern transfer, masking techniques U11-C04D
Payment freed appts. T05-H
banknote operated T05-H02A
coin operated mechanism T05-H01
coin testing or sorting T05-H03
construction T05-H08A
control systems T05-H08C
dispensing cooked articles T05-H04A
dispensing cold articles T05-H04B
dispensing discrete articles T05-H04
dispensing fluid, grain, electricity T05-H06
entertainment T05-H05E
hiring articles T05-H05A
magnetic card operated T05-H02C5A
optical card operated T05-H02C5B
public telephone T05-H05C
W01-C07A
return of payment T05-H05A1
reverse vending T05-H02E
services T05-H05C
smart card operated T05-H02C5C

PC (personal computer) T01-M06A

PCB
- ATE S01-G01B3, V04-R06G3
- component bandolier V04-R04G1
- component magazine V04-R04G1
- conductive material V04-R02P
- double-sided V04-R05B
- flex-rigid V04-R05H
- holder/support V04-R09
- hybrid U14-H03, V04-R05G
- flexible V04-R05D
- mounting in computer T01-L02C
- multilayer V04-R05A
- multilayer, ceramic U14-H03B, V04-R05A1
- printed antenna V04-Q06, W02-B07A3A
- printed connection V04-M05, V04-Q01
- probe card V04-Q08
- rigid V04-R05C
- rigid-flex V04-R05H
- solder mask V04-R04A2
- solder mask, permanent V04-R03E, V04-R04A2A
- soldering V04-R04A
- static electricity neutralising V04-R09
- substrate V04-R07
- substrate constructional details V04-R07F
- substrate, flexible V04-R07C
- substrate, hybrid U14-H03, V04-R07D
- substrate, material V04-R07L, X12-E
- substrate, metal-clad V04-R07E
- substrate, metal-clad, double-sided V04-R07E2
- substrate, metal-clad, single-sided V04-R07E1
- substrate, metal-cored V04-R07B
- substrate, multilayer V04-R07A
- substrate, multilayer ceramic U14-H03F, V04-R07A1
- testing - see PCB testing V04-R06
- three-dimensional V04-R05E
- types V04-R05

PCB manufacture
- adhering metal layer V04-R02, V04-R07
- adhesion aids V04-R02G
- adhesive application, SMT V04-R04B1
- adhesive curing, SMT V04-R04B1
- adhesive drying, SMT V04-R04B1
- adhesive material, SMT V04-R04B2
- applying conductive material V04-R02
- applying conductive material, electroless plating V04-R02A
- applying conductive material X25-R04
- applying conductive material, evaporation V04-R02E
- applying conductive material, screen printing V04-R02F
- applying conductive material, sputtering V04-R02D
- assembling components, leaded V04-R04D
- assembling electronic components V04-R04
- assembling electronic components, clinching leads V04-R04D1
- assembling electronic components,cutting leads V04-R04D1
- assembling electronic components,shaping leads V04-R04D1
- assembling electronic components, SMT using adhesive V04-R04B1
- assembling electronic components, surface-mounted V04-R04B
- blanking V04-R13
- board conveying, general V04-R17, X25-F01
- board handling, general V04-R17
- CAD of wiring layout T01-J15A2, V04-R11
- chemical plating V04-R02A
- circuit pattern V04-R02
- clean flux V04-R04A5C, X24-A01A
- cleaning, brush V04-R03C1
- cleaning, CFC-free V04-R03C9
- cleaning, chemical V04-R03C
- cleaning, mechanical V04-R03C
- cleaning, ultrasonic V04-R03C4
- cleaning, vapour degreasing V04-R03C2
- cleaning, wave bath V04-R03C3
- component bandolier handling V04-R04G1
- component feeding V04-R04G
- component magazine handling V04-R04G1
- component orienting V04-R04G
- component placement machine V04-R04F
- component placement machine, pick-and-place V04-R04F3
- component placement machine, robotic V04-R04F1
- component positioning V04-R04G
- conformal coating V04-R03E
- cutting V04-R13
- de-soldering apparatus V04-R03J, V04-R04A, X24-A02
- de-soldering method V04-R03J, V04-R04A, X24-A01C
- defluxing V04-R03C
- depositing (patterned) metal layer on substrate V04-R02
- depositing (un-patterned) metal layer on substrate V04-R07P4
- drill smear removal V04-R03G
- drilling holes V04-R08, X25-A03B
- drilling vias V04-R08, X25-A03B
- drying V04-R03L
- electroless plating V04-R02A
- electroplating V04-R02B, X25-R04
- embedding wire on substrate V04-R02
- embedding wire, encapsulating V04-R02
- EMI shielding (screening) tracks manufacture V04-R19
- evaporation V04-R02E
- exposure V04-R12
- flux material V04-R04A5, X24-A01A

flux/solder cream/paste application V04-R04A5A
X24-A09
flux/solder cream/paste application, pressure dispensing V04-R04A5A
X24-A09
flux/solder cream/paste application, screen printer V04-R04A5A
X24-A09
flux/solder cream/paste application, stencil printer V04-R04A5A
X24-A09
fluxless soldering V04-R04A5C
holes drilling V04-R08
X25-A03B
insulating layers of multilayer PCB V04-R07P6
laminating metal foil to substrate V04-R07P1
layout design V04-R11
leaded component mounting V04-R04D
manufacturing metal foil V04-R07P2
mask registration V04-R10
masking tape, plating V04-R02R
material recovery V04-R15
material recovery, conductive V04-R15B
material recovery, etchant V04-R15A
mechanical component mounting V04-R04
mechanical metal removal V04-R01C5
mechanical metal removal, using laser V04-R01C5
metal foil manufacture V04-R07P2
metal layer deposition V04-R07P4
metal removal V04-R01C
metal removal, chemical etching V04-R01C1
metallising V04-R02
mounting electronic components - see PCB manufacture, assembling electronic components V04-R
multilayer substrate laminating V04-R07P3
multistep processes V04-R14
overstress indicators, mfr V04-R20
photomask V04-R01B
photoresist V04-R01A
phototool V04-R01B
plating resist V04-R02R
plating through-holes V04-R02C
plating via holes V04-R02C
polishing V04-R03
printed track V04-R02P
printed track, baking V04-R02Q
protective coating V04-R03E
protective coating application V04-R03E1
protective coating application to substrate V04-R07P1A
punching V04-R08
recycling V04-R15
removing electronic components V04-R04
repairing conductive pattern faults V04-R03A
resist V04-R01A
resist laminating, dry V04-R01A5A
resist material V04-R01A1
resist, developing V04-R01A6
resist, dry V04-R01A5
resist, liquid V04-R01A4
resist, protector V04-R01A3
resist, stripping V04-R01A2
resoldering components V04-R03J
RFI shielding (screening) tracks manufacture V04-R19
screen printing conductive material V04-R02F
screen printing solder V04-R04A5A
X24-A09
secondary treatment V04-R03
secondary treatment, cleaning V04-R03C
secondary treatment, drill smear removal V04-R03G
secondary treatment, drying V04-R03L
secondary treatment, protective coating V04-R03E
secondary treatment, protective coating application V04-R03E1
secondary treatment, repairing conductive pattern faults V04-R03A
secondary treatment, soldering V04-R03J
shearing V04-R13
SMT V04-R04B
solder excess removal V04-R03J
solder mask, application V04-R04A2
solder mask, temporary V04-R04A2F
solder material V04-R04A5
X24-A01A
soldering defects correction V04-R03J
soldering inspection V04-R04A7
V04-R06D3
X24-A09
soldering, reflow V04-R04A3
X24-A02E
soldering, reflow using hot gas V04-R04A3J
X24-A02E
soldering, reflow using IR V04-R04A3A
X24-A02E
soldering, reflow using iron V04-R04A3L
X24-A02A
soldering, reflow using laser V04-R04A3C
X24-A02E
X24-D03B
soldering, reflow using thermal conduction V04-R04A3G
X24-A02E
soldering, wave V04-R04A1
X24-A02C
sputtering V04-R02D
X25-A04
substrate, depositing (patterned) metal layer V04-R02
substrate, depositing (un-patterned) metal layer V04-R07P4
substrate, laminating metal foil V04-R07P1
substrate, manufacture V04-R07P
substrate, metal foil manufacture V04-R07P2
substrate, multilayer laminating V04-R07P3
substrate, protective coating application V04-R07P1A
surface mounting electronic components V04-R04B
testing (see also PCB testing) V04-R06
testing, correct component mounting V04-R04J
V04-R06D5
testing, correct component presence V04-R04J
V04-R06D5
through-hole mounting V04-R04D
through-hole plating V04-R02C
vias driling V04-R08
X25-A03B
vias plating V04-R02C
waste decontamination V04-R16
waste disposal V04-R16
wiring V04-R04C

PCB testing S01-G01
V04-R06
artwork V04-R06M
assembled board S01-G01B3
V04-R06D
ATE S01-G01B
V04-R06G3
bare board S01-G01B1
V04-R06A
bare board, conductivity S01-G01B1
S01-G04
V04-R06A3
bare board, isolation S01-G01B1
S01-G04
V04-R06A1
bed-of-nails contacts S01-G01B
S01-H03A
V04-B01
V04-M05
V04-R06G1A
contact probe S01-G01B
S01-H03B
V04-B01
V04-M05
V04-R06G1
correct component position V04-R04J
V04-R06D5
electronic imaging using CCTV V04-R06J1C
W02-F
fixture S01-G01B
V04-R06G
fixture, wireless V04-R06G4
flying-probes V04-R06G1B
generic probes V04-R06G1C
V04-R06G
image processing V04-R06J1C
in-circuit V04-R06D
lands' position V04-R06M
loaded board S01-G01B3
V04-R06D
loaded board, correct component mounting S01-G01B3
V04-R04J
V04-R06D5
loaded board, correct component position S01-G01B3
V04-R04J
V04-R06D5
loaded board, functional S01-G01B3
V04-R06D1
loaded board, in-circuit S01-G01B3
V04-R06D1
loaded board, soldering S01-G01B3
V04-R04A7
V04-R06D3
MEMS probes V04-R06G5
non-contact probes V04-R06G2
optical S03-E04
V04-R06J1
optical pattern recognition T04-D
T04-D07A
V04-R06J1C
optical, visual inspection V04-R06J1A
probes, non-contact type V04-R06G2
probes, MEMS type V04-R06G5
techniques V04-R06J
traces V04-R06M
wireless fixture V04-R06G4
x-rays V04-R06J2
PDP - see Plasma display
Peak current measuring S01-D01A3
Peak detector U24-C03A
Peak to average power ratio control W02-G04B1
Peak voltage measuring S01-D01A3
Pedestrian crossing, manual switch T07-C03
Pedicure equipment P24-C03
Pedometer S02-B12B
Peer-to-peer network T01-N02A2E
W01-A06B8C
Peltier effect devices - see Thermoelectric devices U14-E05
X27-F02B1
Pelton wheel X11-B01
Pen X27-A02C
Pen recorder S02-K05
S06-K99E
Pencil sharpener X27-A02C
Pentode, vacuum tubes V05-B01A7
Percussion-based musical instruments P86-A05
Percussion welding X24-B09
Peripheral equipment power supply T04-L02
Perishable goods
time indication S04-C07
Permanent magnet V02-E01
manufacture V02-H04
material, hard alloy/metal V02-A01A1
material, hard non-metallic V02-A01B1
Permeability measurement
magnetic S03-E11
magnetic - see also magnetic properties S01-E02X
of porous materials S03-F06B
Permeable base transistor - see Field effect transistor, with static induction U12-D02C
Permittivity measuring S01-D05A3
Perpendicular magnetic recording
magnetic head T03-A03D
record carrier T03-A01D
Perpetual calendar P85-A50C
Perpetual motion machine V06-M06
X11-H09
Personal article X27-A02
arm/waist band X27-A02B1
badge X27-A02B1
bag X27-A02B
X27-A02C
briefcase X27-A02C
brushes P24-E
calorie counter X27-A02
clothing, electrical details X27-A02B1
clothing, non-electrical details P21
clothing, garments X27-A02B1A
P21
clothing, heater X27-A02B1
clothing, lighting (application) X26-U99

clothing, manufacture X27-A02B1
P21-M
clothing with attachable electric parts X27-A02B1F
clothing with built in mobile telephone W01-C01A3G
clothing with integral electric parts X27-A02B1E
camping equipment P24-D
connector V04-M30P
cosmetics aids X27-A02
cosmetic products P24-C04
diary X27-A02C
dietetic aid X27-A02
filing system X27-A02C
footwear, manufacture X27-A02B1B
P22-M
glasses X27-A02D
glasses, anti-glare X27-A02D
glasses, lens manufacture X25-A05
X25-A06
X27-A02D
glasses, manufacture X27-A02D
goggles X27-A02D
handbag X27-A02C
P24-B
heating pad X27-A02
X27-E02
helmet X27-A02B1A
P21-F
hygiene - see Personal hygiene X27-A02A
jewellery X27-A02B2
P23-C
jewellery, brooch X27-A02B2
P23-C01
jewellery, eye-catching effects X27-A02B2
jewellery, necklace X27-A02B2
P23-C02
key finder X27-A02
life jacket X27-A02B1A
lunch box X27-A02
P24-B
manicure and pedicure equipment P24-C03
medication ingestion reminder X27-A02
mirror X27-A02
P27-B01
mirror (pocket-size) P24-C05
notepad X27-A02C
pen X27-A02C
powder compact X27-A02
rucksack/backpack X27-A02B1
P24-B
shaving equipment P24-C02
shoe polisher X27-A02
shoes X27-A02B1B
shoes, heater X27-A02B1B
shoes, mfr. X27-A02B1B
P22-M
spectacles X27-A02D
static dissipation band X27-A02B1
suitcase X27-A02C
P24-B
umbrella X27-A02
P24-A02
walking stick X27-A02E
P24-A01

Personal calling arrangements W05-A
acoustic and visual signalling W05-A04A
answer-back pager W02-G02A3
electromagnetically-operated indicators W05-A03X
monitoring W05-C
pagers W05-A05C1A
vibration signalling W05-A01A1
visible indication W05-A03

Personal calling transmission medium
electric transmission W05-A01C
EM transmission W05-A05
hydraulic transmission W05-A01A
IR transmission W05-A05B
mechanical transmission W05-A01A
pneumatic transmission W05-A01A
power line transmission W05-A01C3
radio transmission W05-A05A
telephone line transmission W05-A01C1
UV transmission W05-A05B

Personal Computer
equipment support using T01-J08A1

Personal hygiene X27-A02A
condom dispenser X27-A02A
connector V04-M30P
contact lens steriliser X27-A02A
curling tongs X27-A02A1
depilator, electric S05-A04
X27-A02A3B
drier, hair X27-A02A1
drier, hand X27-A02A1
drier, nail polish X27-A02A1
foot washer X27-A02A
hair clipper, electric X27-A02A3B
hair curler X27-A02A1
incontinence detector X27-A02A
massaging device S05-A05
X27-A02A2
razor, electric X27-A02A3B
shaver, electric X27-A02A3B
shower X27-A02A
X27-E03A1
smoothing tongs X27-A02A1
solarium S05-A03A
X27-A02A2
sunbed/lamp S05-A03A
X27-A02A2
toothbrush, electric X27-A02A3A
lighting (application) X26-U99
toothpaste dispenser X27-A02A
towel dispenser X27-A02A
washer X27-A02A
weighing scale X27-A02A

Personal safety alarm, anti-mugging W05-B01D5

Personal safety alarm W05-B07
accidental falling into water alarm W05-B07J
aged persons protection W05-B07C
dangerous gas alarms W05-B07L
detect person in hazardous area W05-B07K
driver or pilot protection W05-B07E
X22-E04A
industrial worker protection W05-B07A
infirm persons protection W05-B07C
person overboard alarm W05-B07J3
W06-C01B
swimming pool alarm W05-B07J1

triggered by body position or attitude W05-B07G1
triggered by lack of activity W05-B07G3
triggered by medical equipment failure W05-B07G5C
triggered by patient medical parameter W05-B07G5A
S05-D

Personnel control, entry or exit T05-D01

Personnel protection (emergency circuit protection) X13-C09

Personnel Management T01-J05A2H
T01-N01A2H

Pesticides analysis S03-E14M

PET S03-G02C3

Pet - see Domestic pet X27-H

PET - see nuclear imaging

Petanque (sport) P36-A01
W04-X01K1X

pH
control layer/material in magnetic record medium T03-A01A9
sensor, electrochemical S03-E03B2
sensor, non-electrochemical S03-F10

Pharmaceutical
analysis S03-E14A1
S05-C09
delivery management S05-M01
delivery with ventillator S05-M04
drugs processing X25-P02
drugs processing, control T06-D02A
X25-P02
storage and dosing S05-M
storage of medicines S05-M03
tablet/pill counters S05-M02

Phase angle measuring, electric S01-D04

Phase change materials
electronic switching using U21-B01P
logic circuits using U21-C01P
memory circuits using U14-A03H
optical recording layer T03-B01B5G

Phase comparator (pulse signals) U22-D02C

Phase comparator (sinusoidal signals)
analogue implementation U23-C01
digital implementation U23-C02

Phase locked loop U23-D01
acquisition time reduction U23-D01F1
active loop control U23-D01A2
broadening capture range U23-D01F7
charge pump U23-D01A3C
Costas loop U23-D01C1
data synchronisation using W01-A04B1
demodulation using U23-D01C
details U23-D01A
digital U23-D01A8B
false lock prevention U23-D01F3
frequency synthesiser - see Frequency synthesis U23-D01B
improving loop characteristics U23-D01F
lock detector U23-D01A5
loop filter U23-D01A7
loop filter, variable characteristic U23-D01A7A
modulation using U23-D01C
noise reduction in U23-D01F5
phase detector U23-D01A3A
phase error reduction U23-D01F4
testing U23-D01E
voltage controlled oscillator U23-D01A1

Phase segregation of metals, semiconductor lithography U11-C04D2

Phase shift compensation, video signal W04-P01E7

Phase shift keying W01-A09B
U23-P01A3

Phase shift network
lumped constant circuits U25-F01
waveguide - see Waveguide phase shifter W02-A06C

Phase shifting and delay using DSP U22-G03E3F

Phase shifting masks, semiconductor, optical lithography U11-C04E2

Phase splitter, for amplifier U24-G02C1

Phase/frequency, automatic control U23-D

Phosphor
CRT V05-D05B1
discharge lamp X26-A02D
general V05-M01A
LED package U12-A01A4A
plasma display V05-A01B3

Phosphorescence, for materials investigation S03-E04D

Phosphoric acid fuel cell X16-C04

Photo booth S06-B09

Photo frame, digital/electronic W04-E30A5A

Photo-acoustic absorption spectroscopy S03-E04A5A

Photo-finish timing S04-C03C2
T05-G03
W04-X01C1

Photocathodes V05-G01

Photoconductive semiconductor device
AIV elements and their compounds U12-A02B5D
amorphous, polycrystalline semiconductor U12-A02B5C
with AI-BIII-CVI compounds U12-A02B5X
with AII-BIV-CV compounds U12-A02B5X
with AII-BVI compounds U12-A02B5A
with AIII-BV compounds U12-A02B5B

Photoconductor, electrophotographic# S06-E01
belt S06-E01A9
binder S06-E01A3
carrier S06-E01B
cover layer S06-E01B
inorganic S06-E01A2
intermediate layer S06-E01B
manufacture S06-E01D
organic S06-E01A1
sensitizer S06-E01A3

Photocopier - see Electrophotography

Photodetector
copier, image acquisition S06-D05
cryogenic cooling U11-D02C
facsimile, image acquisition S06-D05

optical communications W02-C04A3D
optical heads, recording T03-B02B3

Photodiode
AIV elements and their compounds U12-A02B5D
arrays for sensing/imaging U13-A01A
circuitry U12-A02B4
manufacture U11-C18B4
U12-A02B2A
packages U12-A02B3
structure U12-A02B2A

Photoelectric
digital position encoders U21-A03J1
discharge tubes V05-G
screens, for image tubes V05-D05A1
secondary emission electrodes, mfr. V05-L01A5B

Photoelectric discharge tube V05-G
manufacture V05-L05G

Photoelectric effect S03-E06D

Photoelectric layer, electrophotography S06-E01X

Photoelectric sensors U12-A02B
integrated circuits U13-A

Photoelectrochemical cell U12-A02A
X15-A02D
X16-A04
electrode U12-A02A
X15-A02D
X16-A04
X16-E09

Photoelectronic composing S06-C01

Photoflash array S06-B03B
X26-B01

Photoframe, digital/electronic W04-E30A5A

Photographic apparatus P82
camera P82-A01
body P82-T05
still P82-A01A
motion picture P82-A01C
viewfinder P82-T03
cleaning P82-G
constructional details P82-T
film handling P82-T07
film package P83-B
printing P82-A03
projector P82-A02
using non-optical waves P82-B08
viewer P82-A02

Photographic processes P84
electrographic P84-A02
holography P84-A05
V07
magnetographic P84-A03
photomechanical P84-A01

Photography S06-B
aperture control, camera S06-B02C
aperture value calculation, camera S06-B02B
camera shake S06-B02E
cinematography S06-B05
colour P82-B02
digital – see **Electronic still picture camera** W04-M01B1
exposing P82-T01
exposure control in printing S06-B04A5
exposure control, camera S06-B02
exposure time calculation, camera S06-B02B2
film marking, camera S06-B01B2
film processing and mfr. S06-B04B
film winding, camera S06-B08A
flash, camera S06-B03
focus detection, camera S06-B01A
focusing, camera S06-B01
high speed P82-B06
lens positioning, camera S06-B01B1
light metering, camera S06-B02A
panoramic/wide screen P82-B05
photographic materials
photosensitive materials P83-A
P84-T50A
image receiving materials P84-T50C
developers P84-T50D
fixing agents P84-T50E
recycling P84-R
photographic processes P83-D
printing P82-T15
S06-B04A
printing control S06-B04A5
projector S06-B06A
rangefinder, camera S06-B01A
recording of medical X-ray S05-D02A5A
remote control, camera S06-B02C1
shutter control, camera S06-B02C
stereoscopic P82-B04
S06-B09
studio lighting S06-B09
timer actuation, camera S06-B02C5
viewer S06-B06B
viewfinder display, camera S06-B01C
anti-reflection layers U11-C04A1H
exposure apparatus, method U11-C04E1
masks U11-C04E2

Photolithography, semiconductor manufacture U11-C04E

Photoluminescence quenching thermometry S03-B01G

Photomasks
caseholders U11-C04E2
U11-F02
pellicle U11-C04E2
phase shifting U11-C04E2
reticle U11-C04E2

Photometry S03-A01
by comparison with electric value S03-A01A
by comparison with reference light S03-A01A
chemical S03-A01X
cooling arrangement S03-A04
IR detector cooling arrangement S03-A04
photodiode U13-A01A
using electric radiation detectors S03-A01B
visual S03-A01X

Photomultiplier, for nuclear radiation S03-G02B2E
novel scintillator for S03-G02B1

Photomultiplier, for optical radiation S03-A01B

Photonic crystals V07-K10C

Photoresist materials – see Resist U11-A06

Photoresistor U12-A02B1
manufacture U11-C18B4
U12-A02B1

Photosensitive paper S06-E02
Photosensor, imaging
facsimile S06-D05
Photosynthesis analysis S03-E14J
Photothyristor U12-A02B2C
circuitry U12-A02B4
manufacture U11-C18B2
U11-C18B4
U12-A02B2C
packages U12-A02B3
Phototransistor U12-A02B2B
circuitry U12-A02B4
imagers U13-A01B
manufacture U11-C18B4
U12-A02B2B
packages U12-A02B3
Photovoltage measurements
materials investigation S03-E02X
on semiconductor wafer S03-G02B1
Photovoltaic cell - see Solar cell U12-A02A1
X15-A02A
Physical deposition, apparatus for semiconductor mfr. U11-C09A
Physical deposition, conductive layer
U11-C05C2
Physical deposition, insulating layer U11-C05B2
Physical deposition, semiconductor layer
U11-C01A
evaporation, arc U11-C01A1
evaporation, thermal U11-C01A1
Physical therapy, medical S05-A05E
Physical/chemical properties, investigating
corrosion resistance S03-F07
density S03-F01
emulsion concentration S03-F06A
friction coefficient S03-F08
hardness, mechanical S03-F02A
machinability S03-F02B
mechanical strength S03-F02
moisture, capacitive S03-E02C1
moisture, general S03-F09
moisture, nuclear radiation S03-E06A
mositure, microwave S03-E05A
osmotic pressure S03-F04
particle counters S03-F06C
particle size S03-F05C
pore volume S03-F06B
resistance to heat/wear S03-F02B
sedimentation S03-F05A
specific gravity S03-F01
surface area of porous materials S03-F06B
surface tension S03-F04
suspension concentration S03-F06A
tensile testing S03-F02C
test methods/appts. (see specific codes) S03-E
viscosity S03-F03
weather resistance S03-F07
Pick-up
gramophone V06-V04A3
W04-A02
guitar V06-V04A3
W04-U02A1
image U13-A
W04-M01B5
manufacture V06-V03A
V06-V04A3
musical instruments W04-U02A1
V06-V04A3
Picture frame P27-B01
Picture-in-picture display, TV receiver
W03-A13B
Piezoelectric
actuators V06-M06D
buzzers, communication V06-V01B
V06-V04B
buzzers, general V06-V01B
V06-V04X
conversion of sensor output S02-K03X
delay lines V06-V01B
V06-V04D2
generators V06-M06D2
igniters V06-V01B
V06-V04X
X27-G01
materials U11-A02
V06-V01B
V06-V02R
microsensors V06-V01B
V06-V01K1
V06-V04G
motors V06-M06D
printhead (inkjet printing) V06-M06D
pressure sensors S02-F04B3
V06-V01B
V06-V04G
properties, measuring S01-D09
pulse generators V06-M06D2
relays V03-D05A
resonators V06-V01B
V06-V01E
sensors
(general measurement) S02-K03X
V06-V01B
V06-V04G
sensors (medical use) S02-K03X
V06-V01B
V06-V04G
V06-V04K
switches, contactless
(see also U21-B02C) V06-V01B
V06-V04E
transducers, audio/communication type V06-V01B
V06-V04A
V06-V04B
transducers, general V06-V01B
transformers V06-V01B
V06-V04F
ultrasonic motors V06-M06D1
ultrasonic transducers, general V06-V01B
V06-V01N
vibrators V06-V01B
V06-V04C
Piezoresistances, pressure measuring
S02-F04B1

Pigment sensitized solar cell U12-A02A8
Pillars, semiconductor device interconnection mfr. U11-C05G2C
Pin grid array
attaching pins to package U11-D01A5, U11-E01X
semiconductor package U11-D01A5
Pin network, test probe S01-H03A
Pipe organ P86-A01C3
Pipeline/vector computer T01-M02C2
Pipes, pipelines X25-Y02
valve X25-L01
water treatment X25-H03
Pipette S03-E13B1
Pistol shooting (sport) P36-A05, W04-X01K5E
Pitot tube S02-G02B
PLA - see Logic arrays, integrated circuit programmable logic arrays U13-C04C
Planar doped barrier transistors U12-D02J
Planarisation, semiconductor mfr.
etching techniques U11-C07D3
insulating layers, for metallic interconnections U11-C05B9A, U11-C05D1
Planing machine X25-A03C2
control T06-D07A, X25-A03C2, X25-A03F
Plant analysis S03-E14J
Plant, electric power
aircraft, (engine) control system W06-B01C
biomass X15-E
cogeneration X11-C04
combined cycle X11-C03
diesel engine X11-C02
gas turbine X11-C01
geothermal X15-X
hydroelectric X11-B
IC engine X11-C02
micro hydroelectric X11-B05
mini hydroelectric X11-B05
nuclear X14-C
pumped storage X11-B06
rankine cycle plant X11-C05
sea X15-C05A
solar X15-A
steam turbine (coal-fired) X11-A
thermoelectric X15-D
tidal X15-C02
wind X15-B
wind, off-shore X15-B03
wind, on-shore X15-B02
Plasma X14-F
burner X14-F03, X24-D05
confinement/handling/generation for fusion reactor X14-A03, X14-F01
display - see Plasma display V05-A01
IC manufacture U11-C09C, X14-F02
lamp X26-A01B1
nuclear fusion X14-A03, X14-F01
processing appts. - see Processing tube V05-F05C
processing for magnetic film V02-H02D, X14-F
processing for IC device U11-C07A, U11-C09C, X14-F02
propulsion V05-E05A, X14-F04
propulsion, ordnance W07-E05A, X14-F04
propulsion, space vehicle V05-E05A, W06-B03A, X14-F04
technique X14-F
torch X14-F03, X24-D05
Plasma CVD
appts., for semiconductor mfr. U11-C09B, U11-C09C, X14-F02
method U11-C01B
Plasma display
anodes, electrode assemblies V05-A01C1
address/bus electrodes V05-A01C2
cell construction V05-A01D
combined technology displays V05-A01A7
connectors V05-A01F5
dielectric coatings, electrodes V05-A01C7
drive circuitry T04-H03C4A, V05-A01G
drive circuitry, PCB mounting V05-A01F5
electrode assemblies V05-A01C
electrode construction V05-A01C
electrode manufacture V05-L01B6
electrode supports V05-A01C5
gas filling V05-A01B1
gas filling additives V05-A01B1A
gas filling with several separate gases V05-A01B1C
heated cathode V05-A01C3A
housing V05-A01F3
internal seals V05-A01D3A
LCD, plasma addressed U14-K01A2C, V05-A01A7
lead-in conductors V05-A01D5
microfabricated electrodes V05-A01C4
module aspects V05-A01F
multicolour display V05-A01A5
optical filter V05-A01F1
panel V05-A01A3
phosphor arrangement V05-A01B5
phosphor composition V05-A01B3
plasma as source of electrons V05-A01A7B
screening V05-A01F3
segment type V05-A01A1
spacers V05-A01D
trigger electrodes V05-A01C2
tube cooling V05-A01H
TV receiver W03-A08D
vessels V05-A01D, V05-A01D1
with several separate gases V05-A01B1C

Plasma gun X14-F03

Plasma lamp X26-A01B1

Plastics
- analysis S03-E14D7
- extruding X25-A06
- injecting X25-A06
- moulding X25-A06
- processing X25-A06
- processing control T06-D13, X25-A06
- working X25-A06

Platinum resistance thermometers S03-B01B

Playground equipment P36-E07, W04-X03E2

Playlist management W04-E20P

PLC T06-A04B1, U21-C03B3

Pleximeter P31-A05

PLL - see Phase locked loop

Plotter
- computer peripheral S06-K99E
- to record measured values S02-K05

Plug connector - see Connector

Plug standard converter V04-H

Plush toy P36-E05, W04-X03E5

Pockel's effect
- for current/voltage measurement S01-D01D5
- optical modulation V07-K01A

Pocket calculator T01-J01

Point of sale T05-L01
- automatic packing T05-L01X
- bar code reading T05-L01C1, T04-A03B1
- card reader, electronic funds transfer T05-L01B
- cash register T05-L01A
- data and network aspects T05-L01D
- printer T05-L01H, S06
- product code reader T05-L01C
- scales T05-L01X

Pointer, for indicating/recording measured values S02-K06A

Polar measurements S02-A10G

Polarimetry, optical S03-A02C

Polarization control
- light V07-K03
- RF, antenna polariser W02-B03C
- RF, waveguide polariser W02-A06B
- variable polarisation, antenna W02-B06E

Polarization filter, video camera W04-M01C3G

Polarization measurement, optical S03-A02C
- materials investigation S03-E04B5
- polarimeters S03-A02C

Polarizer, aerial (RF) W02-B03C

Polarizer, light fitting X26-D01G

Polarizers, optical - see Optical elements P81-A15, V07-F02B

Polarography S03-E03B1

Police speed trap T07-A01A1
- detection receiver (radar) W02-G03, W06-A04E3C
- using laser T07-A01A1, W06-A06D2
- using radar T07-A01A1, W06-A04A2

Polishers
- floor polisher X27-D05
- for semiconductor mfr. U11-C06A1A

Polishing P61-A03, X25-A03C3
- control T06-D07A, X25-A03C3, X25-A03F
- Constructional details P61-T
- hard magnetic disks substrates T03-A02B1C, T03-A01E1A
- materials, semiconductor mfr. U11-A10, U11-C06A1A
- optical record carriers during mfr. T03-B01E3L
- semiconductor wafers U11-C06A1A

Pollution measurement S03-D06
- air quality S03-E14N

Polycrystalline semiconductor
- film deposition U11-C01J2
- for photodiode, phototransistor, photothyristor structure U12-A02B5C
- for solar cell structure U12-A02A2F

Polymers, doping U11-C02J3

Pool (game) P36-A01, W04-X01K1E

Population inversion - see Laser pumping V08-A02

Pop-up blocking T01-N02B1C

Pore-volume measurement S03-F06B

Porous silicon U11-A01A1

Port equipment W06-C07

Portable and mobile transceiver W02-G02A
- answer-back pager W02-G02A3
- digital architecture W02-G02K
- duplex W02-G02A5B
- hand-held walkie-talkie W02-G02A1
- mobile radio transceiver W02-G02A2
- push-to-talk W02-G02A5A
- selective calling W02-G02A3
- voice operated switching W02-G02A5C

Portable AV equipment W03-G04

Portable computer T01-M06A1

Portable hard disk drive T03-A08A1G

Portable light X26-E
- table lamp X26-E02
- torch X26-E01

Portable telephone W01-C01D3C

Position detection
- using pattern recognition T04-D07D5
- using semiconductor device U12-A02C

Position encoder U21-A03J
absolute type U21-A03J5
capacitive U21-A03J9
magnetic or inductive U21-A03J2
optical U21-A03J1
rotary U21-A03J1
wiping contact U21-A03J9
Position fixing, navigation W06-A03
using light waves W06-A03D
using radio waves W06-A03B
using sonic/ultrasonic waves W06-A03F
Position measurement S02-A10G2
calibration/compensation S02-A07
S02-A10G2
large scale S02-B01A
monitoring/testing S02-A07
S02-A10G2
using electrical/magnetic method S02-A02
S02-A10G2
using sound or ultrasound S02-A05B
S02-A10G2
Position switch V03-C06C
Positioning
for semiconductor processing U11-F02B
magnetic recording head T03-A05
optical recording head T03-B02
record carriers T03-F
Positive feedback for amplifier U24-G03B
Positron Emission Tomography - see nuclear imaging
Positron microscope V05-F01A9
Potential transformer S01-D01D1
V02-G01B
X12-C01G
Potentiometer V01-A03
Potentiometer, pressure measurement
S02-F04B1
Potentiometric titration S03-E03B1
Powder metallurgy P53-C
M22-H
compacting and/or sintering P53-C03
powder blending P53-C02
powder manufacture P53-C01
system maintenance P53-G
Powder metallurgy (materials processed)
cobalt (alloys) P53-V08
coinage metals P53-V04
composites with non-metallic inorganic materials P53-V10
composite with organic components/polymers P53-V11
ferrous metals P53-V02
group 11 elements P53-V04
light metals P53-V03
nickel (alloys) P53-V07
rare earth metals P53-V09
refractory metals P53-V05
soft metals P53-V06
Powder metallurgy (applications)
industrial P53-U40
vehicle P53-U03
Powdered elements for electric heating
X25-B01E
Power amplifier U24-G01B
audio U24-G01B1
W03-C01C
HF U24-G01B5
LF U24-G01B1
radio transmitter U24-G01B5
W02-G01B
RF U24-G01B5
Power cable X12-D04
Power cable connector/fitting - see Cable
Power capacitor X12-B
Power compensation
reactive, by series capacitor X12-H01A2C
reactive, by shunt reactor X12-H01A2C
reactive, load side X12-H01A2B
reactive, transmission side X12-H01A2A
static VAR X12-H01A2D
static VAR using thyristor-switched capacitor X12-H01A2D
static VAR using thyristor-switched reactor X12-H01A2D
Power control, for discharge heating X25-B03X
Power control, radio
radio system W02-C03E3
radio transmitter W02-G01C1
Power converter - see Converter, power
Power distribution
box X12-G04B
X13-E02
electric - see Electric power distribution/transmission system X12-H
electronic U24-H
overhead installation X12-G05
Power factor
correction (general) X12-J01C
correction capacitor X12-B
X12-H01A2
X12-H01AC
measuring electrical S01-D02
regulation U24-E02D2
X12-H01A2
Power generation (electric)
biomass combustion-type X15-E
cogeneration plant X11-C04
X15-K
chip-scale V06-P01
combination plant
including the use of solar power X15-A05H
excluding the use of solar power X15-J
exclusive use of fossil fuel sources X11-C03
combined cycle plant X11-C03
X15-J
diesel engine plant X11-C02
gas turbine plant X11-C01
geothermal energy X15-G
electricity generation X15-G01
thermal power X15-G02
human exercise X15-X
hybrid plant
including the use of solar power X15-A05H
excluding the use of solar power X15-J

exclusive use of fossil fuel sources X11-C03
hydroelectric plant X11-B
IC engine plant X11-C02
MEMS-scale V06-P01
micro hydro plant X11-B05
micro wind turbine plant X15-B01A3
microturbine plant X11-C15
mini hydro plant X11-B05
muscle contraction/relaxation X15-X
ocean currents X15-C
ocean thermal energy conversion X15-C
plant, chip-scale V06-P01
plant, MEMS-scale V06-P01
plant, small scale V06-P02
plant, micro scale V06-P01
pumped storage plant X11-B06
rankine cycle plant X11-C05
sea power X15-C
sea power using thermal gradients X15-C
sea power using waves X15-C01
Seebeck effect X15-D
small scale V06-P02
small-scale, solar X15-A04
solar energy X15-A09
solar energy, large scale X15-A05
solar energy, small scale X15-A04
steam turbine plant X11-A
tidal flow plant X11-B09
thermoelectric power generation X15-D
using vehicular traffic flow X15-X
vortex power X15-D
waste fuel combustion-type X15-E
wind X15-B
wind, off-shore X15-B03
wind, on-shore X15-B02

Power inductor - see Power reactor

Power line
arc fault protection X13-C01F
X13-C04A
break location X12-G01C
breakage protection X13-C02
clamp X12-G02X
communication W02-C01A3
X12-H03E
crimping X12-G01E
data network W01-A06C6
deicing X12-G01D
X12-G05
earth wire X12-G01F
fault location X12-G01C
ground wire X12-G01F
installations X12-G05
insulator cleaning X12-G01D
joining X12-G01E
lightning protection arrangement X12-G01F
lightning strike recorder X12-G01D
overhead, installing equipment/method
X12-G01A1
overhead, installing using helicopter X12-G01A1
pylon X12-G05
safety arrangement X12-G01F
strain detector X12-G01D
support X12-G05
telecontrol W05-D06P
W05-D08C
telemetry W05-D06P
W05-D08E
X12-H04A
terminating X12-G01E
tower X12-G05
vibration damper X12-G02X
X12-G05

Power management techniques U24-H04
PSU power saving mode/operation U24-K

Power measurement, electrical S01-D02

Power meter
digital S01-B03
integrating type S01-B
remote, customer premises meter reading
S01-B01
X12-H04A
RF S01-D02
S01-H05
tamper-proof S01-B05
X12-H04

Power plant, electric
aircraft, (engine) control system W06-B01C
biomass, biofuel X15-E
cogeneration
fossil fuels X11-C04
non-fossil fuels X15-K
combined cycle
fossil fuels X11-C03
non-fossil fuels X15-J
diesel engine X11-C02
gas turbine X11-C01
geothermal X15-G
hydroelectric X11-B
IC engine X11-C02
micro hydroelectric X11-B05
mini hydroelectric X11-B05
nuclear X14-C
profiting from waste heat X15-H
pumped storage X11-B06
rankine cycle plant X11-C05
sea X15-C
solar X15-A
steam turbine (coal-fired) X11-A
thermoelectric X15-D
tidal X15-C02
traffic flow, power generation from X15-T
waste fuel combustion power generation
X15-E
wave X15-C01
wind X15-B
wind, off-shore X15-B03
wind, on-shore X15-B02

Power rail, electric train/tram X23-A03

Power reactor X12-C01F
bushing X12-C01C
bushing, manufacture X12-C01D5
casing X12-C03
casing, manufacture X12-C01D6
coil/winding X12-C01B1
coil/winding connection X12-C01B1
coil/winding, manufacturing X12-C01D2
control X12-C02B
cooling by conduction through solid X12-C02A
cooling by evaporating liquids X12-C02A
cooling by gas X12-C02A
core X12-C01A

core, manufacture X12-C01D1
electric screen/shield X12-C04
electric/magnetic effects reduction, using
auxiliary coil/core X12-C04
fault detection X12-C02B
induction heating X12-C01H
X25-B02A1
magnetic circuit X12-C01A
magnetic screen/shield X12-C04
manufacture X12-C01D
maintenance X12-C01D7
monitoring X12-C02B
mounting X12-C03
noise damping X12-C03
oil-cooling X12-C02A1
oil-cooling, expansion chamber X12-C02A1
oil-cooling, oil conservator X12-C02A1
reactive compensation X12-C01F
X12-H01A2
short circuit current limiter X12-C01F
X12-H01A3
X13-C03B
superconducting X12-C05
support X12-C03
suspension X12-C03
terminal X12-C01C
terminal, manufacture X12-C01D5
testing X12-C01D3
water cooling X12-C02A2

Power regulator U24-E02D

Power resistor X12-A

Power supply
alarm W05-B10E
arrangements of power buses fed by multiple sources U24-H03
audio tape recorder W04-B12C
audio/video equipment, general W03-G02
back up U24-J
band gap reference circuits U24-E01C7
battery saving U24-H04
U24-K
capacitor charging circuits U24-L
charge pump-type U24-D02A1
chopper U24-D02A2
clock or watch S04-B01A
computer T01-L01
computer (primary) T01-L01A
computer (secondary) T01-L01B
copier S06-K07
current mirror circuits U24-E01C5
data communication equipment (general)
W01-A07K
degaussing system, CRT V05-D08A1
discharge heating X25-B03X
EHT, TV receiver W03-A07C
electric vehicle X21-B
electromagnetic interference (EMI) reduction U24-D01E5
W02-H01
X12-J01E5
facsimile S06-K99D
high level X12-H01C
induction heater X12-H01C
instrumentation S01-J04
X25-B02A
integrated circuits, wiring arrangements U11-D03C1A
intelligent power supply U24-D12
low level U24-D
low power network control U24-H06
low, regulation U24-E
low, regulation with feedback U24-E02
low, regulation with feedback for AC
U24-E02A
low, regulation with feedback for DC
U24-E02B
low, regulation without feedback U24-E01
low, regulation without feedback AC variable U24-E01A
low, regulation without feedback DC variable U24-E01C
memories U14-A09
U24-D
mining X25-D02C
non-contact power distribution U24-H02
power management techniques U24-H04
power saving mode/operation U24-K
power via communication network U24-H05
processing tubes V05-F05E5
protection, low level U24-H01
remote control/monitoring equipment W05-D08P
telephone battery charging W01-C01E5A
X16-G
telephone charging using generator W01-C01E5D
X16-G02C
telephone battery saving U24-K
W01-C01E5B
telephone exchange W01-C02E
telephone set W01-C01E
television receiver W03-A07
transit time tubes V05-C03A
vehicle, auxiliary supply X22-F03
vehicle low voltage distribution network
U24-H07
vehicle, power supply control X22-F04
vehicle, using cigar lighter socket X22-F05
video camera W04-M01P
voltage reference circuit with feedback U24-E02B7
VTR W04-B10C
welding X12-H01C
X24-B02X
X24-C09
X-ray equipment V05-E02A
X-ray equipment, output control V05-E02C

Power supply installation, electric train/tram
X23-A03

Power supply protection - see Protection, emergency
low level U24-H01

Power supply transformer V02-G01A

Power system
communication X12-H03E
pilot relaying, communication X12-H03E
X13-C01X
X13-C04A

Power system protection
A/D signal conversion, digital protection
X13-C15N2
arc fault X13-C01F
X13-C04A
arrester, metal oxide X13-C03A2
X12-A
arrester, SF6 X13-C03A3

arrester, silicon carbide X13-C03A1
arrester, spark gap X12-F01A
X13-C03A
arrester, varistor X12-A
X13-C03A
artificial intelligence-type X13-C15B
auto-reclosures X13-C01X
automatic disconnection U24-F01
X13-C01
Buchholz relay X13-C02
circuit breakers (see also Circuit breaker)
X13-D
CTs X13-C01X
cutoffs, thermal X13-D12
differential X13-C01D
digital relays X13-C15
discharge tube, surge protection V05-A05
X13-C03A
distance X13-C01E
earth leakage X13-C01B
excess current/voltage limiting U24-F02
expert system-type X13-C15B1
fault indicators X13-C01X
frequency-deviation X13-C01X
fuses, electrical - see Fuse X13-D01
fuses, thermal X13-D12
fuzzy logic-type X13-C15C
gas discharge tube, surge protection
V05-A05
X13-C03A
high power equipment X13-C
impedance X13-C01E
lightning arresters X13-C03A
line-breakage X13-C02
low power equipment U24-F
microprocessors X13-C15A
neural networks X13-C15B2
numeric relays-type X13-C15
overcurrent limiter U24-F02
X13-C03B
overcurrent, disconnection X13-C01A
overload X13-C01A
overspeed X13-C02
overvoltage limiter U24-F02
X13-C03A
overvoltage, disconnection X13-C01C
Peterson coils, current limiting X13-C03B
power-reversal X13-C01X
protection algorithms, digital protection
X13-C15N3
protectors, thermal X13-D12
protectors (not covered elsewhere) X13-D09
PTs X13-C01X
reactor, current limiting X12-C01F
X12-H01A3
X13-C03B
short-circuit X13-C01A
signal conditioning, digital protection
X13-C15N1
simulators X13-C20A
solid-state (analogue) relays X13-C10
spark gaps, surge limiting X12-F01A
X13-C03A
superconducting current limiter X13-C03B1
X12-C05
surge arrester (see arrester) X13-C03
synchronism-loss X13-C01X
testing X13-C20
thermal , circuitry X13-C02
under-voltage X13-C01C
varistors X12-A
X13-C03A

Power system protection, applications
accumulators X13-C04X
arresters X13-C04X
batteries X13-C04X
bus-bars X13-C04X
capacitors (static) X13-C04X
capacitors (synchronous) X13-C04B
converter U24-D01B
U24-F
X12-J01B
X13-C04D
distribution-gear X13-C04X
feeders X13-C04A
generators X13-C04B
inverter U24-D01B
U24-F
X12-J01B
X13-C04D
motors X13-C04C
personnel X13-C09
reactors X13-C04X
rectifier U24-D01B
U24-F
X12-J01B
X13-C04D
sectionalised lines/cables X13-C04A
static capacitors X13-C04X
synchronous capacitors X13-C04B
transformers X13-C04B

Power train, vehicle Q13
X22-G

Power transformer X12-C01E
bushing X12-C01C
bushing, manufacture X12-C01D5
casing X12-C03
casing, manufacture X12-C01D6
coil/winding X12-C01B2
coil/winding connection X12-C01B2
coil/winding, manufacturing X12-C01D2
control X12-C02B
X13-H04
control, by tap changing X12-C02B1
X13-H04
control, tap changer per se X12-C02B1
cooling by conduction through solid X12-C02A
cooling by evaporating liquids X12-C02A
cooling by gas X12-C02A
cooling by oil - see also Power transformer, oil-cooling X12-C02A
core X12-C01A
core, manufacture X12-C01D1
electric screen/shield X12-C04
electric train/tram X23-A01A5
electric/magnetic effects reduction, using auxiliary coil/core X12-C04
fault detection X12-C02B
foil winding X12-C01B2
magnetic circuit X12-C01A
magnetic screen/shield X12-C04
manufacture X12-C01D
maintenance X12-C01D7
monitoring X12-C02B
mounting X12-C03

noise damping X12-C03
oil cleaner X12-C09
oil-cooling X12-C02A1
oil-cooling, expansion chamber X12-C02A1
oil-cooling, oil conservator X12-C02A1
polychlorinated biphenyl disposal X12-C01D7
X12-C09
X12-E02A
pressure relief X12-C09
structural association with built-in electric component X12-C09
superconducting coil X12-C01B2
X12-C05
support X12-C03
suspension X12-C03
tap changer X12-C02B1
terminal X12-C01C
terminal, manufacture X12-C01D5
testing X12-C01D3
water cooling X12-C02A2

Power transmission
electric - see Electric power distribution/transmission system X12-H
electronic U24-H

Power transmission line - see Power line

Power transmission line connector/fitting - see Cable

Pram X27-X

Precipitation detection S03-D02
for automatic actuation of vehicle windscreen wipers S03-D02B1

Pregnancy diagnosis S05-D09

Preparation of data for facsimile transmission
S06-K07C3

Prepayment telephone - see Public telephone
W01-C07A

Preprocessing, pattern recognition T04-D03

Presentation software T01-J11E

Press X25-A02A
application of press P71-U
control T06-D05A2
X25-A02A
materials pressed P71-V
press action P71-B
press construction P71-T
press function P71-A10
printing - see Printing press S06-C
types of press P71-A01

Pressure cooker, electric X27-C04

Pressure fixing of toner in photocopier
S06-E06A

Pressure gauges - see also pressure measurement
bellows type S02-F04A1
capsule type S02-F04A2
flexible diaphragm S02-F04A2
flexible tube S02-F04A1
liquid column S02-F04A9
piston S02-F04A9

Pressure measurement
Bourdon gauge S02-F04A1
calibration S02-F04F
capacitive S02-F04B2
electric/magnetic S02-F04B
IC engine S02-F04D3
inductive S02-F04B2
inflation pressures S02-F04C1A
ionisation gauge V05-K03
magnetic S02-F04B2
manometer S02-F04A9
mechanical S02-F04A
optical S02-F04J
partial pressures S02-F04C3A
penning gauge V05-K03
piezoelectric S02-F04B2
V06-V01B
V06-V04G
piezoresistance S02-F04B1
potentiometer S02-F04B1
pressure differences S02-F04C1
protection against overload or environment S02-F04E
rapid changes in pressure S02-F04D3
remote indication S02-F04E
semiconductor transducer S02-F04B3
several pressures S02-F04C3
strain gauge S02-F04B1
temp. compensation S02-F04E
testing S02-F04F
using movement of magnets S02-F04B2
vehicle engine pressure X25-A05A4
vehicle tyre pressure X22-E02B
S02-F04C1A

Pressure sensor
electromagnetic induction type V06-V01A
V06-V04G
semiconductor U12-B03E
semiconductor, manufacture U11-C18C

Pressure switch V03-C06D

Price tags and labels P85-E01L

Primary cell X16-A
aqueous electrolyte X16-A01
dry X16-A01A
electrode X16-E03
electrode, lithium-based X16-E03A1
lithium-based X16-A02A
metal-air X16-A01B
non-aqueous electrolyte X16-A02
photoelectrochemical U12-A02
X15-A02
X16-A04
reserve X16-A03
sea-water X16-A03B
thermal X16-A03A

Primary radar system W06-A04A
target position determination W06-A04A1
using relative movement W06-A04A2

Print media advertising P85-E01J

Printed circuits V04-Q
antenna, printed V04-Q06
W02-B07A3A
buried (non-printed) components association with V04-Q02A6
capacitor, printed V04-Q04B
coil, printed V02-F01N1
V04-Q04C

coil, printed, manufacture V02-H01A
V04-R
component (non-printed), association with V04-Q02A
connector, bed of nails V04-B01
V04-M05
V04-R06G1A
connector, two-part , multi-pole V04-G02
V04-M05
cooling V06-U04D
edge connector, two-part, multi-pole V04-G02A
V04-M05
EMI (non-tracks type) shields V04-Q02A5
EMI (tracks type) shielding V04-Q05A
hierarchical interconnection V04-Q02B1A
V04-T02
HIT arrangement V04-Q02B1A
V04-T02
IC holder U11-D01Q
V04-K02
V04-B01
V04-M05
IC socket U11-D01Q
V04-K02
V04-B01
V04-M05
inductor, printed V02-F01N1
V04-Q04C
manufacture - see PCB manufacture V04-R
mechanical components, association with V04-Q02A4
multichip modules, association with U11-D01A
U14-H03
V04-Q02A2
printed circuits(other), association with V04-Q02B
probe cards V04-Q08
probe cards, horizontal V04-Q08A
probe cards, vertical V04-Q08B
resistor, printed V01-A02
V04-Q04A
RFI (non-tracks type) shields V04-Q02A5
V04-U
RFI (tracks type) shielding V04-Q05A
semiconductor device, association with V04-Q02A7
smart card, association with (see smart card also) T04-K01
V04-Q02A3
surface connector, two-part, multi-pole V04-G02B
V04-M05
switch, association with V04-Q02A1
terminal block V04-B01
V04-M05
terminal strip V04-B01
V04-M05

Printed circuits, applications V04-Q30
alarms V04-Q30T
audio equipment V04-Q30H
avionics V04-Q30A
broadcasting V04-Q30G
cameras V04-Q30J
computers V04-Q30C
data storage V04-Q30E
displays V04-Q30D
domestic appliances V04-Q30N
fax machines V04-Q30F
games V04-Q30K
industrial machines V04-Q30S
instrumentation V04-Q30Q
land vehicles V04-Q30B
machine tools V04-Q30R
medical equipment V04-Q30M
military V04-Q30A
personal articles V04-Q30P
photocopiers V04-Q30F
power supplies V04-Q30L
printers V04-Q30F
projectors V04-Q30D
robotics V04-Q30R
scanners V04-Q30F
shiping V04-Q30A
signalling V04-Q30T
sports V04-Q30K
telecommunication V04-Q30G
telecontrol V04-Q30T
toys V04-Q30K
video equipment V04-Q30H

Printed circuit board - see PCB

Printed circuit board mfr. - see PCB manufacture V04-R

Printer
computer - see printer, computer
computer out to T01-C05A
computer output to networked printer T01-C05A1
inking arrangements P74-C08
machinery and equipment P74-C
electrophotographic - see Electrophotography
photographic S06-B04A
line printing P74-C11
print presses P74-C02
rotary printing machines P74-C03
screen printers P74-C04

Printer, computer S06-K99C
authentication S06-K07C7
Braille S06-K
colour S06-K01
confidential documents S06-K07C7
construction S06-K03
continuous ink-jet S06-G02
control system S06-K07A
construction S06-K03
daisy wheel S06-F02
dot matrix impact S06-F01
drop deflection S06-G02
drop-on-demand ink-jet S06-G01
electrode S06-J
electroerosive S06-J
electrographic S06-J
electrophotographic S06-E
electrosensitive S06-J
external control of S06-K07C1
paper feeding S06-K03A
preventing illegal printing S06-K07A3
impact S06-F
ink, for ink-jet S06-G04
ink-jet S06-G
interface S06-K07C2
laser S06-E
layout control S06-K03A

magnetic S06-K
monitoring S06-K07B
needle impact S06-F01
optical S06-E
photosensitive paper S06-E01
print job S06-K07C1A
print queue S06-K07C1A
ribbon, for impact type S06-F03
recycling S06-K04
secrecy S06-K07C1
sheet feeding S06-K02
thermal S06-H
thermal ink composition S06-H02A
thermal ink-jet S06-G01
thermal printhead S06-H03
thermal ribbon S06-H02
thermal transfer S06-H02
thin-film heads for U14-H01B
typewriter, self contained S06-K99A
using thermal paper S06-H01
using type S06-F02
wire dot impact S06-F01

Printing
colour separation S06-C02B
composition or typesetting P74-B01
computer - see Printer, computer S06-K99C
computer-to-plate S06-C02A1
digital photography W04-D10
W04-M01B1
electrophotographic - see Electrophotography S06-K99B
facsimile - see Facsimile S06-K99D
imposition P74-B02
intaglio P74-A03
lithography P74-A02
photoelectronic composing S06-C01
photographic - see Photography S06-B04A
plate production S06-C02A
press printing P74-A01
screen printing P74-A04
surface preparation P74-B03
textile printing X25-T04D
ticket, receipt T05-C01

Printing, duplicating or manifolding P75-D
carbon copying P75-D01
hectographic printing P75-D01
pressure-sensitive layers or intermediaries P75-D01

Printing press S06-C
P74-C02
collator, collector, folder S06-C09
composing S06-C01
control S06-C03A
plate production S06-C02A

Prisms
generating spectrum S03-A02A
testing S02-J04A9

Probe
bed-of-nails type V04-R06G1A
board S01-H03A
contact type V04-R06G1
flying V04-R06G1B
generic V04-R06G1C
inductive V02-G01E
MEMS type V04-R06G5
multiple-probe arrangement S01-H03A
non-contact type V04-R06G2
single S01-H03B
ultrasonic S03-E08X

Probe cards V04-Q08
probe cards, horizontal V04-Q08A
probe cards, vertical V04-Q08B
semiconductor device testing U11-F01C1
semiconductor wafer testing U11-F01D1

Process control T06-A
application T06-D

Process monitoring, production line T05-G02B

Processing
data transmission W01-A07F
electromagnetic prospecting data S03-C02X
particle movement S03-G01A
seismic data S03-C01X

Processing, audio signals (general) W04-G
compression and expansion W04-G04
improving S/N ratio W04-G03A
noise reduction W04-G03
reducing acoustic feedback W04-G03C

Processing, image - see Image processing

Processing, video signals W04-P

Processing device
characterised by beam type V05-F05A7
complete device V05-F05E1
device details V05-F05E3
for surface treatment V05-F08D5
novel details V05-F05E
using beams V05-F05A
using electron beam V05-F05A7A
using ion beam V05-F05A7C
with flood effect beam V05-F05A5
with focused beam V05-F05A1

Processing tube V05-F05
beam masking element V05-F04X
beam tube V05-F05A
characterised by beam type V05-F05A7
charge-up prevention element V05-F04X
circuitry V05-F05E5
cleaning, maintenance V05-F05E9
cooling V05-F04K
electron beam tube V05-F05A7A
electron cyclotron resonance (ECR) tube V05-F05C3
equipment function - see Processing tube function V05-F08
externally applied ionising energy V05-F05C1
flood effect beam tube V05-F05A5
focused beam tube V05-F05A1
heating arrangement V05-F04X
ion beam tube V05-F05A7C
magnetron effect V05-F05C3A
microwave excitation of plasma V05-F05C1A
monitoring V05-F05E5A
multiple beam tube V05-F05A3
operation of device V05-F05E5
optical excitation of plasma V05-F05C1C
plasma V05-F05C
plasma confinement/manipulation V05-F05C3
plasma, capacitively coupled V05-F05C1G
plasma, inductively coupled V05-F05C1E
power supplies V05-F05E5
RF feed arrangement V05-F04X
specimen holder V05-F04G

tunnelling effect tube V05-F05D
UV source V05-F04X
workpiece holder V05-F04G

Processing tube function V05-F05
V05-F08
coating V05-F08D1
cutting V05-F08E3
etching V05-F08E1
fluid processing V05-F08F
ion implantation V05-F08D3
lithography V05-F08C1
machining V05-F08E5
powder synthesis V05-F08G
removing material V05-F08E
sputtering V05-F08D1A
surface treatment V05-F08D

Product code reader
barcode type T04-A03B1
point of sale T05-L01C

Production line
pass-fail test T05-E
process monitoring T05-G02B

Profile tracing
land surfaces, cavities S02-B02
using photographic surveying S02-B04

Program switch V03-C08

Program control, computer T01-F
booting/initialisation T01-F05B
configuration T01-F05B2
execution of instructions T01-F03
high level language T01-F05A
interrupt T01-F02
language processor T01-F05A
microprogramming T01-F01
multitasking T01-F02
resetting T01-F05B1
shell T01-F05G3
support programs T01-F05C
system management T01-F05
terminal emulation T01-F05G3
Applets T01-H07C3E

Program guide (EPG)
system aspects W02-F10E5
TV set aspects W03-A13J
video recorder aspects W04-E04C8

Program management, computer T01-J12
icons, use of T01-J12D
prompting T01-J12A
security T01-J12C
split screen display T01-J12B
user interface management system T01-J12B1
window display T01-J12B

Program monitoring, computer T01-G05

Program-control system T06-A04
CIM T06-A04B7
CNC T06-A04A2
computer integrated manufacturing T06-A04B7
contouring, NC T06-A04A3
direct/distributed numerical T06-A04A2A
DNC T06-A04A2A
flexible manufacturing T06-A04B7
fluidic, non-numerical T06-A04B3
FMS T06-A04B7
graph set processing-type T06-A04B1
logic controller T06-A04B1
U21-C03B3
manual data input, NC T06-A04A4
MDI, NC T06-A04A4
monitoring, NC T06-A04A6
multi-machine T06-A04B7
NC, using measuring device T06-A04A1
non-numerical T06-A04B
T06-A04B1
numerical T06-A04A
numerical, using measuring device T06-A04A1
open loop, numerical T06-A04A9
PLC T06-A04B1
U21-C03B3
positioning, NC T06-A04A3
recording and playback, non-numerical
T06-A04B5
relay ladder-type T06-A04B1
safety, NC T06-A04A6
sequence controller-type T06-A04B1
teaching, non-numerical T06-A04B5
tool path interpolation, NC T06-A04A5
total factory, numerical T06-A04A2A
using computer T06-A04A2

Programmable array logic U13-C04C
U21-C01E

Programmable controller U21-C03B3

Programmable interconnect U13-C04C

Programmable logic array U13-C04C
U21-C01E

Programmable logic controller T01-F06
T06-A04B1
U21-C03B3
ladder logic T01-F06

Programme guide system (EPG)
head-end/general system details W02-F10E5
receiver details W03-A13J
subscriber-end interactive details W03-A16C5E
recorder details W04-E04C8

Programming/erasing circuitry for memory
U14-A07B

Programming hearing aids W04-Y03P

Projection television W04-Q01
beam splitter W04-Q01E7A
cathode ray tube type W04-Q01A
circuitry W04-Q01J
convergence control, CRT W03-A08A5C
W04-Q01A
cooling W04-Q01H5
copy protection systems W04-Q01J5
deformable mirror device (DMD) W04-Q01B3
direct retinal projection, general display
W04-Q01L
W05-E07
direct retinal projection, TV display W03-A08E7A
W04-Q01L
direct retinal projection, virtual reality display W04-Q01L
W04-W07E1A
filter, colour separation W04-Q01E3A
filter, IR-blocking W04-Q01E3C
laser light source W04-Q01B1
lens details W04-Q01E1C
lens focusing W04-Q01E1A

lens system W04-Q01E1
lens/optics associated with CRT V05-D01B
V05-D07C5A
W04-Q01A
W04-Q01E
light valve system W04-Q01B
light valve system with laser source W04-Q01B1
mirror W04-Q01E5
monitoring display output W04-Q01J1
novel light source W04-Q01B7
novel light valve W04-Q01B5
optical system W04-Q01E
polariser W04-Q01E7C
stereoscopic and 3-dimensional display W04-Q01S
volumetric, non-planar projection screens or media W04-Q01F5

Projector, computer T04-H03E

Projector, photographic - see Photographic projector S06-B06A

Projector, video - see Projection television W04-Q01

PROM - see ROMs, programmable

Prompting, computer T01-J12A

Propulsion
aircraft Q25-C
W06-C01A1
electric bicycle X21-A01C
electric bus X21-A01F
electric car X21-A01F
electric forklift truck X21-A01B
X25-F05A
electric golf cart X21-A01E
electric motorcycle X21-A01F
electric scooter X21-A01F
electric train/tram X23-A01A
electric vehicle X21-A01F
electric wheelchair S05-G02A
X21-A01A
hybrid electric vehicle X21-A01D
X22-P04
microwave thruster, space vehicle W06-B03A
plasma X14-F04
plasma, space vehicle W06-B03A
X14-F04
plasma, weapons W07-E05A
X14-F04
railway train X21-C01
ship Q24-E
W06-C01A1
spacecraft Q25-S04
trolley bus X21-A01

Prospecting S03-C
acoustic S03-C01
calibrating of equipment S03-C10
compensation aspects S03-C10
electric current S03-C02A
electric field S03-C02B
electromagnetic S03-C02
electromagnetic, processing data S03-C02X
gas S03-C
gravimetric S03-C04
in water covered areas S03-C01C1
S03-C07B
magnetic field S03-C02B
nuclear radiation S03-C03
nuclear radiation, processing data S03-C03
oil S03-C
optical S03-C04A
seismic S03-C01
seismic, processing data S03-C01X
testing of equipment S03-C10
thermal S03-C04A
using ESR/EPR S03-C02F9
using MRI S03-C02F3
using NMR S03-C02F1
using NQR S03-C02F5
using Nuclear Quadrupole Resonance S03-C02F5
using quantised spin properties S03-C02F
well logging S03-C01C5
S03-C07A

Prosthesis S05-F
arm or leg S05-F03
artificial heart pump S05-F04
eyesight aids S05-F05
implantable general P32-A40A
implantable hearing aid S05-F01
internal incontinence device S05-F02
medical P32-A40
S05-F
non-implantable P32-A40B

Protecting coating, for magnetic record carriers T03-A01B5C

Protection
amplifier U24-G03C
copyright T01-J05A2G
T01-N01A2G
emergency protective circuits - see Protection circuits, emergency X13-C
U24-F
emergency protective devices - see Circuit breakers X13-B
X13-D
for integrated circuits U13-E01
indicating appts. S02-K02C
smart card, fraud prevention T01-H01C1
transducer (pressure measurement) S02-F04E
transducers, general S02-K02C
transmitter power amplifier W02-G01C5
X-ray, in medical use S05-D02A3

Protection, power system
A/D signal conversion, digital protection X13-C15N2
arrester, metal oxide X13-C03A2
X12-A
arrester, SF6 X13-C03A3
arrester, silicon carbide X13-C03A1
arrester, spark gap X12-F01A
X13-C03A
arrester, varistor X12-A
X13-C03A
artificial intelligence-type X13-C15B
auto-reclosures X13-C01X
automatic disconnection U24-F01
X13-C01
Buchholz relay X13-C02
circuit breakers (see also Circuit breaker) X13-D
CTs X13-C01X

cutoffs, thermal X13-D12
differential X13-C01D
digital relays X13-C15
discharge tube, surge protection V05-A05
X13-C03A
distance X13-C01E
earth leakage X13-C01B
excess current/voltage limiting U24-F02
expert system-type X13-C15B1
fault indicators X13-C01X
frequency-deviation X13-C01X
fuses, electrical - see Fuse X13-D01
fuses, thermal X13-D12
fuzzy logic-type X13-C15C
gas discharge tube, surge protection
V05-A05
X13-C03A
high power equipment X13-C
impedance X13-C01E
lightning arresters X13-C03A
line-breakage X13-C02
low power equipment U24-F
microprocessors X13-C15A
neural networks X13-C15B2
numeric relays-type X13-C15
overcurrent limiter U24-F02
X13-C03B
overcurrent, disconnection X13-C01A
overload X13-C01A
overspeed X13-C02
overvoltage limiter U24-F02
X13-C03A
overvoltage, disconnection X13-C01C
Peterson coils, current limiting X13-C03B
power-reversal X13-C01X
protection algorithms, digital protection
X13-C15N3
protectors, thermal X13-D12
protectors (not covered elsewhere) X13-D09
PTs X13-C01X
reactor, current limiting X12-C01F
X12-H01A3
X13-C03B
short-circuit X13-C01A
signal conditioning, digital protection X13-C15N1
simulators X13-C20A
solid-state (analogue) relays X13-C10
spark gaps, surge limiting X12-F01A
X13-C03A
superconducting current limiter X13-C03B1
X12-C05
surge arrester (see arrester) X13-C03
synchronism-loss X13-C01X
testing X13-C20
thermal , circuitry X13-C02
under-voltage X13-C01C
varistors X12-A
X13-C03A

Protection, power system, applications
accumulators X13-C04X
arresters X13-C04X
batteries X13-C04X
bus-bars X13-C04X
capacitors (static) X13-C04X
capacitors (synchronous) X13-C04B
converter U24-D01B
U24-F
X12-J01B
X13-C04D
distribution-gear X13-C04X
feeders X13-C04A
generators X13-C04B
inverter U24-D01B
U24-F
X12-J01B
X13-C04D
motors X13-C04C
personnel X13-C09
reactors X13-C04X
rectifier U24-D01B
U24-F
X12-J01B
X13-C04D
sectionalised lines/cables X13-C04A
static capacitors X13-C04X
synchronous capacitors X13-C04B
transformers X13-C04B

Protection circuits, emergency
A/D signal conversion, digital protection
X13-C15N2
arrester, metal oxide X13-C03A2
X12-A
arrester, SF6 X13-C03A3
arrester, silicon carbide X13-C03A1
arrester, spark gap X12-F01A
X13-C03A
arrester, varistor X12-A
X13-C03A
artificial intelligence-type X13-C15B
auto-reclosures X13-C01X
automatic disconnection U24-F01
X13-C01
Buchholz relay X13-C02
circuit breakers (see also Circuit breaker)
X13-D
CTs X13-C01X
cutoffs, thermal X13-D12
differential X13-C01D
digital relays X13-C15
discharge tube, surge protection V05-A05
X13-C03A
distance X13-C01E
earth leakage X13-C01B
excess current/voltage limiting U24-F02
expert system-type X13-C15B1
fault indicators X13-C01X
frequency-deviation X13-C01X
fuses, electrical - see Fuse X13-D01
fuses, thermal X13-D12
fuzzy logic-type X13-C15C
gas discharge tube, surge protection V05-A05
X13-C03A
high power equipment X13-C
impedance X13-C01E
lightning arresters X13-C03A
line-breakage X13-C02
low power equipment U24-F
microprocessors X13-C15A
neural networks X13-C15B2
numeric relays-type X13-C15
overcurrent limiter U24-F02
X13-C03B

overcurrent, disconnection X13-C01A
overload X13-C01A
overspeed X13-C02
overvoltage limiter U24-F02
X13-C03A
overvoltage, disconnection X13-C01C
Peterson coils, current limiting X13-C03B
power-reversal X13-C01X
protection algorithms, digital protection
X13-C15N3
protectors, thermal X13-D12
protectors (not covered elsewhere) X13-D09
PTs X13-C01X
reactor, current limiting X12-C01F
X12-H01A3
X13-C03B
short-circuit X13-C01A
signal conditioning, digital protection X13-C15N1
simulators X13-C20A
solid-state (analogue) relays X13-C10
spark gaps, surge limiting X12-F01A
X13-C03A
superconducting current limiter X13-C03B1
X12-C05
surge arrester (see arrester) X13-C03
synchronism-loss X13-C01X
testing X13-C20
thermal , circuitry X13-C02
under-voltage X13-C01C
varistors X12-A
X13-C03A

Protection circuits, emergency, applications
accumulators X13-C04X
arresters X13-C04X
batteries X13-C04X
bus-bars X13-C04X
capacitors (static) X13-C04X
capacitors (synchronous) X13-C04B
converter U24-D01B
U24-F
X12-J01B
X13-C04D
distribution-gear X13-C04X
feeders X13-C04A
generators X13-C04B
inverter U24-D01B
U24-F
X12-J01B
X13-C04D
motors X13-C04C
personnel X13-C09
reactors X13-C04X
rectifier U24-D01B
U24-F
X12-J01B
X13-C04D
sectionalised lines/cables X13-C04A
static capacitors X13-C04X
synchronous capacitors X13-C04B
transformers X13-C04B

Protection, general
breathing equipment for P35-A03E
chemical protection P35-A03G
clothing for P35-A03C

Protective clothing P35-A03C

Protocol for data transmission
computer communication T01-H07B
data networks – see **Network protocol**
W01-A06F
general W01-A07G

Proximity switches U21-B02C
displacement U21-B02C2
non-displacement U21-B02C1
optical U21-B02C3

Proximity/presence detection S03-C06
acoustic S03-C01B
electrical/magnetic, using electric current
S03-C02A
electrical/magnetic, using electric/magnetic field S03-C02B
electrical/magnetic, using HF em fields
S03-C02X
optical- see also light barriers S03-C08
other types S03-C04

Pseudo-stereophonic system W04-R01A

Phase shift keying W01-A09B
U23-P01A3

Psychrometry S03-E01B

PT S01-D01D1A
V02-G01B
X12-C01G

Public address system W04-S05
aircraft W04-S05
W06-B01C7
ship W04-S05
W06-C01C6

Public telephone W01-C07A
antifraud measures W01-C07A3
card operated T05-H02C1
T05-H05C
W01-C07A5
coin operated T05-H01
T05-H05C
W01-C07A5
construction W01-C07A1
control and signalling W01-C07A7
for railway train X23-C01
internet access facility W01-C05B4E
W01-C07A9
payment appts. details T05-H05C
W01-C07A5
pin fraud prevention W01-C07A3
telephone card W01-C07A5A

Public transport timetable P85-A50A

Public transport vehicle
displaying information to controller T07-A05A3
location display for passenger T07-A05A1
position monitoring (external) T07-A05A

Puffer type circuit breaker X13-B03A1

Pulse code modulation
television systems W02-F07
transmission (general) W02-C06

Pulse comparison (by) U22-D02
amplitude U22-D02A
duration U22-D02G
frequency U22-D02E
phase U22-D02C

Pulse compression for radar W06-A04D3

Pulse counter - see Counters U21-D

Pulse demodulation U22-E05A

Pulse distribution U22-D06
- frequency variation in output pulses U22-D06C
- phase variation in output pulses U22-D06A
- switching U21-B05X

Pulse generation U22-A
- astable implementation U22-A04A
- bipolar implementation U22-A02A
- bistable type U22-A04C
- Blumlein type U22-A03
- comparator implementation U22-D10F
- control details U22-B
- counter circuit implementation U22-A02D
- energy storage type U22-A03
- FET implementation U22-A02B
- integrated bipolar implementation U22-A02A1
- integrated FET implementation U22-A02B1
- Josephson junction device implementation U22-A02X
- logic gate implementation U22-A02D
- monostable type U22-A04B
- multistable type U22-A04X
- on-chip control circuits U22-B02
- operational amplifier implementation U22-A02E
- output regulation U22-B01
- parameter compensation U22-B05
- pulse train generation U22-A01
- radar system application W06-A04D1
- random/pseudorandom type U22-A01A
- stored energy release type U22-A03

Pulse generator for radar W06-A04D1

Pulse manipulation
- amplification U22-D01A1
- bipolar transistor implementation U22-D10A
- changing duration U22-D01A6
- changing duration using time reference signals U22-D01A6C
- changing duration without time reference signals U22-D01A6A
- changing pulse train pattern U22-D05
- changing timing using active circuitry U22-D04A
- changing timing using passive circuitry U22-D04C
- circuit implementation U22-D10
- comparator implementation U22-D10F
- comparison U22-D02
- demodulation U22-E05A
- distribution U22-D06
- FET implementation U22-D10B
- frequency multiplication/division U22-D05A
- level clamping, shaping U22-D01A1A
- logic block implementation U22-D10D
- modulation U22-E
- offset establishing / removing U22-D01A1A
- operational amplifier implementation U22-D10X
- operational amplifier/comparator implementation U22-D10X
- PAM U22-E01E
- PFM U22-E01G
- PPM U22-E01C
- pulse delivery as function of input U22-D07
- PWM U22-E01A
- responding to power supply U22-D07A
- shaping U22-D01
- sorting U22-D02
- thresholding, shaping U22-D01A1C
- transforming modulation type U22-E05C
- zero-crossing responsive circuit U22-D07A

Pulse monitoring (by) U22-D03
- amplitude U22-D03A
- duration U22-D03G
- frequency U22-D03E
- phase U22-D03C

Pulse offset adjustment U22-D01A1A

Pulse stuffing
- Digital TDM synchronisation W01-A04A9
- TDM (general) W02-K02A3

Pulse transformer V02-F02

Pulses
- characteristics, measuring S01-D06
- comparing U22-D02
- demodulating, from carriers U23-P01
- distributing U22-D06
- finite slope generation U22-C
- generation using energy-accumulating element U22-A03
- manipulation U22-D
- modulating carriers (using) U23-P01
- monitoring U22-D03
- shaping U22-D01
- sorting U22-D02
- stepped portion U22-C
- triangular shape generating U22-C01

Pump
- apparatus, semiconductor manufacture U11-C09Q
- electromagnetic pump – low power V06-M06K
- electromagnetic pump – high power X11-H03B
- conduction type, electrodynamic X11-H03B
- heart, medical S05-F04
- induction type, electrodynamic X11-H03B
- industrial electric X25-L03A
- ion V05-K
- medical S05-H

Pumping, laser - see Laser pumping V08-A02

Punch, for card or tape T04-A01

Punching X25-A02D
- engraving systems X25-X10

Purification/sterilization
- by use of transducers V06-V04T

Push-pull amplifier U24-G02C5

Push-pull converter U24-D02B3
- control U24-D02B3, U24-D01A

Push to talk over packet network W01-C05B4G

Pushbutton switch V03-C01A, X13-A04B2
- details (constructional) V03-C01A3
- multi-pushbutton V03-C01A2
- single-pushbutton V03-C01A1

PWR X14-A02

Pyroelectric devices U14-E01
- characterised by material U11-A02, U14-E01A
- characterised by structure U14-E01B
- manufacture U14-E01C

Pyrometry S03-A03

Q

Q-factor measurement S01-D05A5
QAM circuits U23-P01E1
QAM data transmission W01-A09C1
QoS (data networks) W01-A06A3
QPSK circuits U23-P01A3
QPSK data transmission W01-A09B
Quad antenna (box-kite type) W02-B04D5
Quadrifilar helix antenna (QFH) W02-B01C3A
Quadraphonic systems W04-R01E
Quadrature amplitude modulation W01-A09C1
Quadrature phase shift keying W01-A09B
Quality control
computer-controlled mfr. T01-J07B1
magnetic record carrier mfr. T03-A02C
Quantization, video coding
hybrid coding W04-P01A4G
predictive coding W04-P01A5G
transform coding W04-P01A3C
Quantized spin properties measurement S01-E02A
Quantum cryptography W01-A05E
Quantum interference devices U12-D02K
Quantum processor T01-M06Q
Quantum processing T01-E05Q
Quantum wells, wires, boxes deposition U11-C01J6
FET, quantum well U12-D02D2
FET, quantum wire U12-D02D1
for semiconductor structures U12-E01B2
structures, for semiconductor lasers U12-A01B1B
Quarrying – see Mining
Quartz oscillator
clock application S04-B02B
circuitry U22-A04A2
U23-A01A
resonator details V06-V01B
V06-V01E
watch application S04-B02B
Question and answer apparatus P85-A07
W04-W01

R

Radar
absorber W02-B03D
W06-A04X
acoustic – see sonar W06-A05
antennas and antenna control W06-A04G7
anticollision W06-A04H1K
antijamming W06-A04E1C
applications W06-A04H
bistatic W06-A04L
calibration W06-A04E3A
chaff W02-B03B2A
W06-A04E1
clutter supression W06-A04E5
constant false alarm rate (CFAR) W06-A04E5
continuous wave (CW) W06-A04F
detecting existence/position of radar W06-A04E3C
displays W06-A04C
Doppler (RF) W06-A04A2
FM-CW W06-A04F
for aircraft W06-A04H1B
for motor vehicle W06-A04H1A
X22-J05A
for ship W06-A04H1C
for vehicle W06-A04H1
imaging W06-A04H3
industrial W06-A04H8
jamming, active W06-A04E1A
maintenance W06-A04E3A
mapping W06-A04H3
monitoring W06-A04E3A
monopulse W06-A04A1
MTI W06-A04A2
optical - see Optical radar W06-A06
over-the-horizon (OTH) W06-A04X
police speed trap T07-A01A1
W06-A04A2
police speed trap warning receiver W06-A04E3C
W06-A04G3
X22-E08
PPI W06-A04C
primary W06-A04A
processing W06-A04E9
pulse compression W06-A04D3
pulse generators W06-A04D1
pulse system details W06-A04D
receiver circuitry W06-A04G3
relative movement detection W06-A04A2
secondary W06-A04B
signal-to-noise ratio improvement W06-A04E5
signature reduction W06-A04X
synthetic aperture W06-A04J
target position determination. W06-A04A1
tracking, target seeking W06-A04H5
traffic control and monitoring W06-A04H7
transforming co-ordinates W06-A04E3E
transmit/receive switching W06-A04G5
transmitter circuitry W06-A04G1
using different response medium W06-A04B7
vehicle, driver information W06-A
X22-E11
vehicle, traffic management W06-A
X22-E11
weather S03-D05
W06-A04H2

Radiation detector (nuclear)
general S03-G02
tube mfr. V05-L05H
tube per se V05-H
Radiation diagnosis, medical S05-D02
Radiation hardened integrated circuit U13-D08
Radiation imaging using stimulable phosphor sheet
general S03-E06B3, S06-K99G
medical S05-D02A5C
Radiation measurement
back-scattering radiation S03-E06C
chemical dosimetry S03-G02A
contamination S03-G02B
diffraction, materials investigation S03-E06C
luminescent dosimetry S03-G02A
photographic dosimetry S03-G02A
reflecting, materials investigation S03-E06C
scattering, materials investigation S03-E06C
whole body counter S03-G02B
Radiation sensing tube V05-H
manufacture V05-L05H
Radiation sensitive semiconductor devices
energy conversion application U12-A02A
for imaging application U13-A01
pyroelectric devices U14-E01
wavelength conversion layers U13-A01G
Radiation therapy, medical S05-A03
other radiation S05-A03X
X-ray S05-A03F
Radiation treatment, semiconductor U11-C03A
Radiative cooling
discharge tube (general) V05-M07A
electronic appts. (general) V04-T03A
semiconductor device U11-D02
vacuum tube V05-B01B6
Radio
alarms, centralised signalling W05-B05B2, W05-B05G5
ALE system W02-C03E5, W02-C03X
antenna testing S01-G08A5, W02-B08A1
bandwidth reduction W02-G04A
broadcast receiver - see Broadcast radio receiver W03-B
cellular systems W02-C03C1
citizen's band equipment W02-G02
cognitive radio systems W02-C03G5
communications equipment (general) construction W02-G06
communications receiver - see Radio communications receiver W02-G03
diversity systems W02-C03A
Doppler shift compensation W02-C03E4
echo cancelling systems W02-C03E2
equalising systems W02-C03E1
equipment rack (general) W02-G06
hot standby system W02-G08A
ionospheric scatter communication W02-C03X
link modelling W02-C03E5
Mitola (cognitive) systems W02-C03G5
mobile systems W02-C03C
personal calling arrangements W05-A05A
point-to-point link W02-C03D
power control, radio system W02-C03E3
power control, radio transmitter W02-G01C1
redundancy W02-G08
relay systems W02-C03B
remote control W05-D06A1A, W05-D08C
remote monitoring W05-D06A1A, W05-D08E
repeater W02-G05C
resource allocation W02-C03G1
signal predistortion W02-G04B
signal transmission, telemetry/telecontrol W05-D06A1A
simulation systems W02-C03E5
single-sideband W02-G04C
standby system W02-G08
systems W02-C03
telephone systems W01-B05A1
time compression or expansion W02-G04A1
transceiver W02-G02
transmitter - see Radio transmitter W02-G01
transponder W02-G05
tropospheric scatter communication W02-C03X
volume compression/expansion W02-G04B1
white space utilization W02-C03G5
Radio broadcast systems
ARI W02-E01B5
audience monitoring W02-D04B
DAB W02-D05C1, W02-K07C
digital W02-D05C
digital, multiplex transmission W02-D05C1
Digital Radio Mondiale (DRM) W01-A09C1, W02-D05C1, W02-K07C
digital, stereophonic W02-D02, W02-D05C
emergency broadcasts W02-D07A
general W02-D05
monitoring W02-D04, W02-D05
multiplex, digital W02-D05C1
radio data system (RDS) W02-E01B
satellite W02-D05A
signal testing W02-D04A1
stereophonic (analog) W02-E
stereophonic, with additional information W02-E01
stereophonic, with additional programme W02-E01A
stereophonic, with dynamic range data W02-E01B1, W02-G04B1
stereophonic, with program content data W02-E01B1
stereophonic, with station-unrelated data W02-E01B5
stereophonic, with station-related data W02-E01B1
Radio communication connector - see Connector

Radio communication receiver
(for broadcast type, see **Broadcast radio receiver**) W03-B
AFC U25-J05
W02-G03A7A
AGC U24-C01
W02-G03D
audio amplifier W02-G03F
baseband bandwidth control W02-G03B8
construction W02-G03H
crossmodulation reduction W02-G03B4E
demodulator W02-G03E
digital architecture W02-G03K
direct conversion W02-G03A8
frequency compressive feedback W02-G03B7
frequency control W02-G03A7A
homodyne W02-G03A8
IF filter W02-G03C1
IF shift W02-G03B2C
IF system W02-G03C
IF system, amplifier W02-G03C5
image response reduction W02-G03B4A
image rejection mixer W02-G03A5A
inter-station noise suppression W02-G03B1
intermodulation reduction W02-G03B4E
local oscillator W02-G03A7
low-IF W02-G03A8C
mixer W02-G03A5
multipath reception compensation W02-G03B6
muting W02-G03B1
noise blanker W02-G03B5
offset reduction (DC receiver) W02-G03A8
W02-G03B4G
rake receiver W02-G03B6A
RF amplifier W02-G03A3
RSSI W02-G03J1
S/N ratio improvement W02-G03B
spurious signal reduction W02-G03B4C
squelch circuits W02-G03B1
synchrodyne W02-G03A8
testing S01-G08A3
W02-C05B
W02-G03
thermal noise reduction W02-G03B3
threshold extension (FM) W02-G03B7
tuner circuitry W02-G03A
variation of RF/IF passband W02-G03B2
zero-IF W02-G03A8A
Radio direction finding W06-A02A
automatic equipment W06-A02A1
Radio equipment
broadcast receiver -see **Broadcast radio receiver** W03-B
communications receiver -see **Radio communications receiver** W02-G03
repeater W02-G05C
standby arrangements W02-G08
testing methods S01-G08A
W02-C05B
transceiver W02-G02
transmitter -see **Radio transmitter** W02-G01
transponder W02-G05A
Radio link
ALE system W02-C03E5
W02-C03X
Bluetooth® interface W01-A07H2A
Bluetooth® network W01-A06C4A
clock setting S04-B03
S04-B06
data networks W01-A06C4
data interface W01-A07H2
DECT interface W01-A07H2C
IEEE 802.11 network link W01-A06C4E
IEEE 802.16 network link W01-A06C4G
point-to-point systems W02-C03D
telecontrol/telemetry transmission W05-D06A1A
UWB and impulse network link W01-A06C4K
W02-K05A9
UWB and impulse interface link W01-A07H2K
W02-K05A9
ZigBee® interface W01-A07H2A
ZigBee® network W01-A06C4A
Radio receiverbroadcast - see Broadcast radio receiver **W03-B**
communications - see **Radio communications receiver** W02-G03
Radio relay systems W02-C03B
Radio transceiver W02-G02
base station W02-G02B
construction W02-G02H
control W02-G02C
digital architecture W02-G02K
duplex W02-G02A5B
hand-held W02-G02A2
mobile (vehicle) W02-G02A2
PTT W02-G02A5A
VOX W02-G02A5C
Radio transmitter W02-G01
broadcast W02-D05
W02-G01
construction W02-G01H
cooling V04-T03
W02-G01H
digital architecture W02-G01K
frequency control W02-G01A3
frequency translating W02-G01A5
impedance matching W02-G01E
modulator W02-G01D
oscillator W02-G01A1
power amplifier W02-G01B
power control W02-G01C1
power limiting W02-G01C5
protection W02-G01C5
testing S01-G08A1
W02-C05B
tuning W02-G01E
Radioactive cell X14-E
Radioactive waste X14-D
Radiotelephone system
airborne relay W02-C03B1F
broadcasting W01-B05A1M
cellular W01-B05A1A
W02-C03C1
cellular applications W02-C03C1J
cordless (subscriber location) W01-C01D1
cordless call point system (e.g. CT2, DECT) W01-B05A1B
W02-C03C3
digital short range radio system W01-B05A1D
direct mode connection W01-B05A1D
fixed radio access W01-B05A1G

fourth generation W01-B05A1A W02-C03C1H W02-K07C
location register details W01-E01C1
macrocellular W01-B05A1A
microcellular W01-B05A1A
multichannel access W01-B05A1 W02-C03C3
personal handyphone (PHS) W01-B05A1B W02-C03C3
satellite telephone connection W01-B05A1E W02-C03B1A W02-C03C1A
short messaging service W01-B05A1F
subscriber registration W01-E01C3
subscriber roaming W01-E01A
third generation W01-B05A1A W02-C03C1A W02-C03C1G
trunked radio interconnection W01-B05A3

RAID
computer data stores T01-H01B1A
disk drives T03-A08A5A

Rail, low power V04-H01

Railcar type Q21-C03 X23-D
breakdown train Q21-M03
buffer car Q21-C03H
freight Q21-C03B
hopper Q21-C03D X23-D02
mine car Q21-C03F X23-D04
passenger Q21-C03A
railway inspection trolley Q21-C03I
sleeper car Q21-J01
tanker Q21-C03C X23-D03
tipping Q21-C03E
tramway vehicle Q21-C03G
wagon/truck Q21-C03B X23-D01

Railway, electric - see Electric railway X23

Railway, mechanical Q21
bridge Q21-A12
construction Q41-E
cargo handling Q21-A04
derailer Q21-A08
level crossing Q21-S07
passenger handling Q21-A04
shunting devices Q21-A07
station Q21-A03
track construction Q21-A01
traffic control Q21-S05
tunnel Q21-A12
turntable Q21-A06

Railway train
air-conditioning Q21-J02
assembly Q21-M05
axle box Q21-D06
bogie Q21-D03
brake actuator Q21-F05
brake components, hoses Q21-F09
brake system Q21-F
buffers Q21-D12C
cargo compartment Q21-J07
cargo handling Q21-J06
chassis Q21-D02
cleaning Q21-M01
couplings Q21-D12
design X23-X16
door Q21-D15
draw gear Q21-D12B
heating Q21-J02
maintenance Q21-M X23-X16
manufacture Q21-M05 X23-X20
passenger safety systems X23-A15
rail engaging elements Q21-D10
sanitation arrangements Q21-J04
seats Q21-J03
servicing Q21-M02 X23-X16
steps Q21-J05
superstructure Q21-D01
tarpaulin Q21-D17
testing X23-X16
tilt control Q21-D05
transmission system Q21-D13
underframe Q21-D02
wheel guards Q21-D11
window Q21-D16

Railway signalling - see Electric railway

Railway timetable P85-A50A

Railway type Q21-B
cableway Q21-B03 X23-P03
elevated Q21-B01 X23-P01
funicular Q21-B03A
magnetic levitation Q21-B05A X23-P05
monorail Q21-B02 X23-P02
power-and-free Q21-B03B
rack Q21-B04
rope/cable Q21-B03
ski-lift Q21-B03C
sliding/levitation Q21-B05
tramway Q21-B03A
underground Q21-B06 X23-P06

Rain detection S03-D02B
for automatic actuation of vehicle windscreen wipers S03-D02B1 X22-X06E
for non meteorological application S03-D02B1

Rainfall measuring S03-D02A

Raised pad, semiconductor wiring U11-D03A2

Rake receiver W02-G03B6A

Raman laser V08-A04X

Raman spectrometry S03-A02B
for materials investigation S03-E04D1

Ramp, load/unload for hard disk drive T03-A05G T03-A08A1C

RAMs
dynamic, matrix layout U13-C04B1A
dynamic, with capacitor store U14-A03B4
dynamic, with stacked capacitor structure U13-C04B1A U13-D03A U14-A03B4
dynamic, with trench capacitor structure U13-C04B1A U13-D03A U14-A03B4
dynamic/static, matrix layout U13-C04B1
static, matrix layout U13-C04B1B
static, with bipolar transistors U14-A03A1
static, with bistable FET cells U14-A03B1
with magnetic elements U14-A04
with programmable conductor layer U14-A03H
with ROM in memory cell U14-A03B9

Random access memories - see RAMs

Random number generator T01-E04
for lottery appts. T05-F

Random pulse generators U22-A01A

Rangefinder
optical S02-B01
photographic camera S06-B01A
reflection-based (laser type) W06-A06D1
reflection-based (lidar type) W06-A06D1
reflection-based (radar type) W06-A04A1
reflection-based (sonar type) W06-A05D1
video camera W04-M01D2C

Rankine cycle plant X11-C05

Rapid prototyping X25-A08

Raster distortion correction in TV CRT W03-A08A1D

Raster scanning electrophotographic exposure S06-D01B

Ratio control T06-B08
engine air/fuel ratio X22-A03A2A
fluids, electrical T06-B08A1
non-electric auxiliary power-type T06-B08A9
non-electric without auxiliary power-type T06-B08A9
several fluids flow T06-B08A

Rayleigh scattering S03-E04C

RCCB X13-D05

RDS
decoder in broadcast receiver W03-B02C5 W03-B08
message/bulletin storage W03-B08A1
programme content storage W03-B08A5
transmission system details W02-E01B

Reactance multiplier U25-C

Reactive CVD, semiconductor

Reactor (inductive, low power)
casing, hf V02-F03A3
casing, power supply V02-G02A3
coil connection, hf V02-F03B
coil connection, power supply V02-G02B
coil/winding insulator, hf V02-F03B1
coil/winding insulator, power supply V02-G02B1
coil/winding manufacture, hf V02-H01A
coil/winding manufacture, power supply V02-H01A
coil/winding, hf V02-F03B
constructional details, hf V02-F03
constructional details, power supply V02-G02
control V02-F03C V02-G02C
control using current collector, hf V02-F03C
control using current collector, power supply V02-G02C
control using movable coil winding V02-G02C2
control using movable coil/winding, hf V02-F03C2
control using movable core V02-G02C2
control using movable core, hf V02-F03C2
control using movable shield V02-G02C2
control using movable shield, hf V02-F03C2
control using tappings on coil/winding V02-G02C1
control using tappings on coil/winding, hf V02-F03C1
cooling V02-G02A1
cooling, hf V02-F03A1
core manufacture V02-H03E
core, hf V02-F03A2
core, power supply V02-G02A2
hf-type V02-F01
low power V02-G01C
manufacture V02-H
manufacture, whole device V02-H09
mounting V02-G02A
mounting, hf V02-F03A
power – see Power reactor X12-C
power supply, coil/winding V02-G02B
screen V02-G02D
screen, hf V02-F03D
shield V02-G02D
shield, hf V02-F03D
terminal V02-G02X
terminal, hf V02-F03X

Read only memories - see ROMs

Read/write circuitry for memories U14-A07

Reader
barcode T04-A03B1
card or tape, digital T04-A01
digital mark T04-A03
electrostatic, digital T04-A03A
IR, UV or optical, digital T04-A03B
magnetic, digital T04-A03A
microfilm, microform S06-B06C
smart card T04-K02

Reading digital static stores U14-A07

Real space transfer U12-D02J1

Reclamation of contaminated soil or ground P43-J

Recommendation system, interactive broadcasting W02-F10Q3

Receipt issuing T05-C01

Received signal strength indicator (RSSI) W02-G03J1

Receiver
broadcast radio - see **Broadcast radio receiver** W03-B
cable TV receiver W03-A16C1

communications - see **Radio communications receiver** W02-G03
data (general) W01-A07D
optical communications W02-C04A3
receiver-in-canal (RIC) V06-V04K
satellite radio broadcast receiver W03-B06A
satellite TV receiver W03-A16A
television - see TV receiver W03-A

Rechargeable cell X16-B

Recognition
character or pattern - see pattern
eye T04-D07F1A
human feature S05-D01C5A
T04-D07F
human feature, for entry or exit control
T05-D01B
Iris T04-D07F1A
speech W04-V
for vehicle X22-L

Record carrier
digitally marked T04-C
digitally marked, magnetic T04-C01
digitally marked, optical, IR, UV T04-C02
mechanism actuated by T05-H02C
smart card T04-K01

Record carrier (dynamic)
authentication mark T03-H02A1C
capacitive T03-C01
cassette disk T03-H01A
T03-N01
cassette tape T03-H01B
T03-N03
cleaning T03-H02B
compact disk T03-B01D1
container - see Record carrier (dynamic) container
T03-H
T03-L
digitial versatile disk T03-B01D1
T03-B01D6
disk cassette T03-H01A
T03-N01
electro-optical T03-D03A
floppy magnetic disk T03-A01C1C
general details (audio/video) W04-E03
hard magnetic disk T03-A01C1A
T03-B01
housing (removable) T03-L01A
IC tag T03-H02A3
label T03-H02A1A
magnetic - see Magnetic record carrier T03-A01
magnetic card T03-A01C5
magnetic disk T03-A01C5
magnetic drum T03-A01C7
magnetic tape T03-A01C3
magneto-optical T03-D01A
optical T03-B01
positioning, capacitive T03-C01
T03-F
positioning, general T03-F
positioning, magnetic T03-A08
positioning, magneto-optical T03-D01B
positioning, optical T03-B03
positioning, tunnel current T03-C05
T03-F
V05-F01A5
V05-F08C3
superconducting, magnetic T03-A01E
superconducting, non-magnetic T03-C07
tape cassette T03-H01B
T03-N03
tunnel current T03-C05

Record carrier (dynamic) container
disk case T03-L01A1
T03-N01
disk cassette mfr. T03-H01A8
T03-N01
disk cassette per se T03-H01A
T03-N01
disk storage rack T03-L01C1
T03-N01
tape cassette case T03-L01A1
T03-N03
tape cassette per se T03-H01B
T03-N03
tape cassette storage rack T03-L01C3
T03-N03

Record carrier positioning (general)
disk/drum/card, etc. T03-F
tape transport T03-E
library systems for disks T03-Q05
magnetic tape cassette library T03-N03
T03-Q01
W04-B16

Record cutter W04-A01

Recorder/player (dynamic) - see Recording equipment (dynamic)

Recording
computer printer - see Printer, computer
distance S02-B12
distance, for vehicle S02-B12A
electrical sensor output conversion S02-K03A
electrophotographic - see Electrophotography
function of variable S02-K01
general (for instrumentation S01-S03) S02-K
individual vehicle images T07-A03C
individual vehicle information T07-A03
magnetic sensor output conversion S02-K03A
particle movement S03-G01A
time S04-E
tubes V05-F08C3
weight S02-D03

Recording equipment (dynamic)
audio compact disk W04-C10A1
audio signal processing W04-G01
audio tape W04-B12
audio/video magnetic W04-B
audio/video multimedia aspects W04-K10
audio/video on-demand file server W02-F10K
W04-K05A
cabinets, stands (general) T03-L05A
cabinets, stands (general), audio/video
W04-L05A
capacitive T03-C01
capacitive, audio/video W04-D
card (general) T03-N05
cartridge drive, computer data T03-A08E
T03-N03
cassette (general) T03-N03
cassette changing T03-E01B
T03-N03

cassette drive T03-E
T03-N03
changing recording quality W04-E20S
characterised by type (general) T03-N
clock generation and recording T03-J03C1
clock recovery T03-J03C5
compact disk audio W04-C10A1
compact disk video W04-C10A3
control circuits (general) T03-K05
control circuits (general), (audio/video)
W04-J05
copy marking, (general) T03-P07C
copy marking, audio W04-G01L3
copy marking, video W04-F01L3
copy prevention, audio W04-G01L1
copy prevention, video W04-F01L1
copy prevention, (general) T03-P07A
copy prevention, hardware T03-H07C
delayed recording W04-E20V
detecting carrier defect T03-K07E
disk (general) T03-N01
disk changing T03-F01
T03-N01
disk drive/positioning T03-F02
T03-N01
disk tray T03-F01A
display, audio/video W04-J03
display, audio/video, dedicated W04-J03A
display, audio/video, on-screen W04-J03C
display, general T03-K03
drum (general) T03-N06
drum drive/positioning T03-F02
T03-N06
dubbing, audio/video W04-H05A
duplication of magnetic recording T03-A07B
duplication prevention (general) T03-P07
duplication prevention, audio W04-G01L
duplication prevention, video W04-F01L
editing T03-K01
editing, audio/video W04-H05E
equalisation, thresholding and detection
T03-P01D
format (general) T03-P01F
format, audio/video magnetic W04-B01A
format, magnetic T03-A06F
freeze frame mode, video W04-E20C5
helical scan (general) T03-N02
high-speed mode, audio/video W04-E20A
holographic T03-C09
housings (general) T03-L05A
housings (general), audio/video W04-L05A
indexing T03-J01
indexing, audio/video W04-H01
interfacing, magnetic T03-A10
interfacing, magneto-optical T03-D01E5
interfacing, optical T03-B08
magnetic T03-A
magnetic, audio/video W04-B
magneto-optical T03-D01
magneto-optical, audio/video W04-D20
manufacture T03-M08
mode details, audio/video W04-E20
monitoring (general) T03-K07
monitoring (general), audio/video W04-J07
multimedia aspects, audio/video W04-K10
multiple operation modes W04-E20T
noise and vibration reduction using constructional techniques T03-L05N
noise reduction in signal processing (general) T03-P05
operating mode, audio/video W04-E20
operation displays T03-K03
operation displays, audio/video W04-J03
optical T03-B
optical, audio/video W04-C10
personal video recorder (PVR) W04-B14C3
power supply details T03-M05
reel-to-reel (general) T03-N04
remote control, audio video W04-E04A
reverse mode, audio video W04-E04A
set-top box video recorder W03-A16E1
shock absorbing and damping T03-L05S
simultaneous play and record mode (different sections), audio video W04-E20M
slow-speed mode, audio/video W04-E20C1
splicing T03-K01A
splicing, audio/video W04-H05C
stands for recording equipment T03-L05A
stands for recording equipment, audio/video W04-L05A
still video floppy (SVF) recorder W04-B14A
W04-M01B1A
still-picture mode, video W04-E20C5
storage rack for carriers T03-L01C
superconducting T03-C07
superconducting magnetic T03-A06K
synchronising T03-J03
television signal processing - see **Video recording signal processing** W04-F
testing W04-J07
testing, during manufacture T03-K07A
testing, during manufacture, audio video
W04-J07A
testing, post-manufacture T03-K07C
testing, post-manufacture, audio/video W04-J07C
time code recording T03-J01A
time code recording, audio/video W04-H01A
time lapse mode, audio/video W04-E20C3
time programming, audio/video W04-E04C
tunnel current T03-C05
V05-F05D
V05-F08C3
use of data recording apparatus for non-recording applications T03-S
vibration reduction using constructional techniques T03-L05N
video compact disk W04-C10A3
video magnetic W04-B
video magneto-optical W04-D20
video set-top box W03-A16E1
video signal processing - see Video recording signal processing W04-F
video tape - see Video tape recorder
W04-B10
video-on-demand (VOD) file server W02-F10A
W02-F10K
W04-K05A

Recording equipment (dynamic) interfacing
audio tape recorder W04-B12C
general T03-M07
magnetic recorder/player T03-A10
magneto-optical recorder/player T03-D01E5
optical recorder/player T03-B08
video tape recorder W04-B10C

Recording indexing T03-J01
W04-H01
error management information T03-J01E
W04-H01E
record carrier IC T03-H02A3
table-of-contents (TOC) T03-J01C
W04-H01C
time code T03-J01A
W04-H01A
user table-of-contents (UTOC) T03-J01C1
W04-H01C1

Recording measured values
appts. components (see also Indicating appts.) S02-K06
calibrating S02-K07
chart/pen recorders S02-K05
converting sensor output mechanically S02-K03X
converting sensor output using fluid S02-K03X
electric elements S02-K06B1
heated elements S02-K06B1
ink transfer recording elements S02-K06B2
magnetic elements S02-K06B1
noise reduction S02-K02D
optical elements S02-K06B1
perforating elements S02-K06B1
plotters S02-K05
protection S02-K02C
recording elements S02-K06B
remote reading S02-K08A
testing S02-K07
transferring/converting sensor output S02-K03

Recording/reproducing head (dynamic)
general arrangements T03-G
magnetic T03-A03
magneto-optical T03-D01C
T03-D01F
optical T03-B02B
positioning (capacitive) T03-C01
T03-G
positioning (general) T03-G
positioning (magnetic) T03-A05
positioning (magneto-optical) T03-D01D
T03-D01F
positioning (optical) T03-B02A
positioning (tunnel current) T03-C05
T03-G
V05-F05D
V05-F04B8A
V05-F08C3
track aligning (general) T03-G02C
track selecting (general) T03-G02B

Recording/reproducing methods (dynamic)
capacitive T03-C01
W04-D
combination methods T03-D
W04-D
hard-copy video W04-D10
holographic T03-B12
magnetic T03-A06
magneto-optical T03-D01E7
W04-D
mechanical W04-A
optical T03-B05A
W04-C05
tunnel current T03-C05
V05-F05D
V05-F08C3
using combination of methods T03-D

Recovery, material (general electronic component) V04-X01C

Recreation W04-X03G
bar W04-X03G4
club W04-X03G4
cinema W04-X03G5
disco W04-X03G4
fairground W04-X03G3
restaurant W04-X03G4
theatre W04-X03G1
theme park W04-X03G3

Recrystallisation, for semiconductor mfr. U11-C03J1

Rectifier - see Converter, AC-DC

Rectifier diodes U12-C01C
Schottky barrier U12-C01C

Rectifier gain control signal U24-C03

Rectifier, synchronous U24-D04G

Rectifier, semiconductor
bridge, package for U11-D01B3
cooling U11-D02A

Rectifier, semiconductor controlled U12-D01B4

Rectifier, signal U24-C03

Recycling processes / systems
AV equipment W03-G10C
clay/slip P64-R
combustion apparatus Q73-R
drying components Q76-R
furnace components Q77-R
HVAC components Q74-R
incinerators X25-W01A
heat exchanger Q78-R
lighting components Q71-R
paper recycling X25-T09G
X25-W04
photographic processing agents P83-R
photographic materials P84-R
printer/copier S06-K04
sorting X25-F06
television W03-A19C
water X25-H03
X25-W04
wood P63-R

Recycling/destroying recording media
magnetic T03-A01R
optical T03-B01R
magneto-optical T03-D01R
general T03-H02R

Redundancy
communications equipment W02-G08
data representation T01-G01
error detection/correction, computing T01-G
hardware T01-G03
integrated circuit repair U11-C19A
operation T01-G03

Redundancy components for memories U14-D01B
using fuses U14-D01A

Reed-based musical instruments P86-A01A3
Reed organ (instrument) P86-A01C1
Reed relay V03-D04A5
Reed Solomon error correction
data transmission W01-A01B1C
general U21-A06A4
Reed switch V03-C06A
Reel storage, for tape T03-L01A3
Reel-to-reel recorder T03-N04
Reflective light barrier, coupled with emitter U12-A02C2
Reflector
aerial W02-B03B
light fitting/fixture X26-D01A
optical V07-F02A
radar W02-B03B
Reflex amplifier U24-G02X
Reflex and reaction measurement, medical S05-D01F
Reflex reflector
optical P81-A03
radio frequency (RF) W02-B03B2
Reflow soldering, general X24-A02E
Reflow soldering, iron X24-A02A
Refraction, optical, materials investigation S03-E04B5
Refractive index S03-E04B5
Refractor, aerial W02-B03A
refresh, computer memory T01-H01C3
Refractor, light fitting/fixture X26-D01B
Refrigerant X27-F
Q75
refrigerant used
HFC Q75-A20A
HCFC Q75-A20B
CFC Q75-A20C
Refrigeration X27-F
Q75
accessory X27-F
accessory, deodoriser X27-F
accessory, display card for freezer contents X27-F
accessory, ice-cube tray X27-F01
accessory, water dispenser X27-F
components X27-F02C
components, absorber Q75-T02
components, adsorber Q75-T02
components, boiler Q75-T02
components, compressor X25-L03B
X27-F02C1
Q75-T01
components, condenser X27-F02C
Q75-T03
components, defroster X27-F02C
components, electric motor V06-M
X27-F02C1
components, evaporator X27-F02C
Q75-T03
components, expansion valve X27-F02C
components, frost sensor X27-F02C2
components, heat exchanger X27-F02C
Q75-T03
components, light X27-F02C2
components, other X27-F02X
components, pump X25-L03A
X27-F02C1
components, refrigerant pipes X25-F02C
components, switch X27-F02C2
components, thermostat V03-C06B
X27-F02C2
components, valve Q75-T03
construction X27-F01
construction, built-in water dispenser X27-F01
construction, cabinet X27-F01
Q75-T06
construction, door X27-F01
construction, housing Q75-T06
construction, refrigerant pipes X25-F02C
construction, seal X27-F01
construction, shelf Q75-T06
X27-F01
construction, wall Q75-T06
control X27-F03
Q75-T20
control, defrosting X27-F03
cooling fluid circulation Q75-T09
defrosting X27-F02A
drug storage S05-M03
electrocaloric cooling X27-F02B1
for vending machine T05-H04B
ice formation monitoring X27-F03
ice manufacture X27-F04
Q75-E
ice storage and distribution Q75-E
intelligent refrigerator X27-F051
leak monitoring X27-F03
magnetic cooling X27-F02A1
Peltier effect X27-F02B1
refrigerant used
HFC Q75-A20A
HCFC Q75-A20B
CFC Q75-A20C
safety Q75-T20
solid state heat pump X27-F02B1
system (general) X27-F02A
thermoelectric cooling X27-F02B1
types of refrigeration systems
compression systems Q75-A02A
cyclic systems Q75-A02
heat pump systems Q75-A02C
non-cyclic systems Q75-A01
sorption systems Q75-A02B
water/ice dispenser Q75-T08
Refrigeration (applications) X27-F
domestic Q75-U01
food industry Q75-U07
industrial Q75-U40
sports, toys, entertainment, leisure Q75-U30
vehicle Q75-U03
Refrigerator - see Refrigeration X27-F
Refuse collection vehicle Q19-C04
X22-P05X
X25-W01

Regenerative braking
electric machines V06-N06
X13-H01B
electric train X23-A01B3
electric vehicle X21-A03C
Registering and indicating T05-G
machine working T05-G02
time of events T05-G03
vehicle working T05-G01
Registers, computing T01-H01D
Registration, cellular / wireless W01-E01C
location register details W01-E01C1
mobile station registration W01-E01C3
transfer of registration information W01-E01C5
Registration control for colour video camera
W04-M01D9
Regulating current/voltage U24-E
AC or DC with feedback U24-E02C
AC, feedback system U24-E02A
AC, non-feedback system U24-E01
DC, feedback system U24-E02B
DC, feedback system with protection
U24-E02B1
U24-E02B1A
DC, feedback system with switching regulator U24-E02B2A
DC, feedback system with transistor U24-E02B2
DC, feedback with dissipative regulator
U24-E02B2D
DC, non-feedback system U24-E01
DC, other type U24-E02B9
feedback system U24-E02
linear U24-E02B2D
non-feedback system U24-E01
voltage control, power supply/distribution
X12-H01A1
Regulating electric variable
input deviation detecting-type U24-E03
input deviation detection using FET U24-E03B
input deviation detection using inductor
U24-E03X
input deviation detection using thyristor
U24-E03A
input deviation detection using transformer
U24-E03X
input deviation detection using transistor
U24-E03B
input deviation detection using triac U24-E03A
Regulating magnetic variable U24-E04
transductor U24-E04
Regulating power U24-E
X12-H01A
maximum energy transfer U24-E02D1
maximum energy transfer for solar power generator U24-E02D1
solar system interconnected to utility system U24-E02D1A
X12-H01B1
with feedback U24-E02D
Regulatory information
data processing T01-J05A2L
on-line systems T01-N01A2L
Relaxation S05-A09
Relaxation oscillator, pulse generation U22-A04A4
Relay attack protection
communications (general) W02-L07C
data transmission (general) W01-A05L5
remote control system W05-D05B5
Relay with contacts
cooling V03-D06A
dynamo-electric V03-D05E
electroadhesion V03-D05C
electrodynamic V03-D05E
electromagnetic V03-D04
electrostatic V03-D05C
electrostrictive V03-D05A
electrothermal V03-D05D
ferrodynamic V03-D05E
hybrid relays V03-D15
induction V03-D05E
intelligent relays V03-D20
magnetodynamic V03-D05E
magnetostrictive V03-D05B
manufacture V03-D06B
MEMS relay V03-D10
micromachining for mfr. V03-D06B1
microrelays V03-D10
nanorelays V03-D10A
NEMS relay V03-D10A
non-polarised V03-D04X
piezoelectric V03-D05A
polarised V03-D04A1
reed V03-D04A5
sealed, electromagnetic V03-D04A5
smart relays V03-D20
testing S01-G10
V03-D06B
Relay with contacts, applications
alarms V03-U15
audio equipment V03-U09
avionics V03-U03B
broadcasting V03-U05
cameras V03-U12
control V03-U16
domestic V03-U01
doors V03-U18
games V03-U08
HVAC V03-U17
industrial V03-U07
information equipment V03-U04
instrumentation V03-U13
land vehicles V03-U03A
lighting V03-U11
machine tools V03-U06
medical V03-U10
military V03-U03D
monitoring V03-U16
personal V03-U02
refrigeration V03-U17
robotics V03-U14
shipping V03-U03C
signalling V03-U15
sports V03-U08
telecommunication V03-U05
toys V03-U08
vehicles V03-U03
video equipment V03-U09
windows V03-U18

Relay with contacts, details
cases V03-D06A
contacts - see Contacts V03-A
contacts arrangements V03-D03C
delaying operation V03-D01
driving arrangements V03-D03D
energising-current supply V03-D02
holders V03-D06A
indicators V03-D06A
magnetic circuit V03-D03A
manufacture V03-D06B
micromachining for mfr. V03-D06B1
modifying operation V03-D01
operation-delay V03-D01
seals V03-D06A
shielding V03-D06A
terminals V03-D06A
testing V03-D06B
windings V03-D03B

Remanence measurement S01-E02X
S03-E11C

Reminder alarm W05-A10A

Remote control
audio/video equipment (general) - **see Audio/video equipment (general)**
remote control W03-G05A
building control application W05-D07C
camcorder W04-B10C
W04-E04A
W04-M01D1A
W04-M01K
coding for security (general) W05-D05B
constructional details W05-D08N
data network-based W05-D06F
W01-A06
earth drilling and well logging W05-D07H
factory automation application W05-D07B
free-space link W05-D06A3
general W05-D
home automation application W05-D07A
lamp switching X26-C03C
'Learning' type remote controllers W05-D08L
meter reading application W05-D07G
monitoring (general) W05-D05C
noise suppression/compensation (general) W05-D05A
office automation application W05-D07E
optical fibre link W05-D06C
photography S06-B02C1
power generation/distribution X12-H03A
W05-D07F
power line link W05-D06P
X12-H03E
power supply details W05-D08P
radio link (general) W05-D06A1A
recording equipment W04-E04A
security (general) W05-D05B
transponder-based (general) W05-D08G
TV camera W04-M01D1A
TV receiver - **see TV receiver remote control** W03-A02C
ultrasonic link (general) W05-D06A5
vehicle application W05-D07D
vehicle locking X22-D01A1
vehicle starting X22-A08A
video camera W04-M01D1A

Remote control extender W03-G05A8

Remote examination/testing T01-N01B3A

Remote keyless entry (RKE) W05-D06A
W05-D07D
W05-D08C
X22-D01A2

Remote metering, power X12-H04A
S01-B01

Remote monitoring
access control (general) W05-D05B
building control application W05-D07C
coding for security (general) W05-D05B
data network-based W05-D06F
W01-A06
earth drilling and well logging W05-D07H
factory automation application W05-D07B
free-space link W05-D06A3
general W05-D08E
home automation application W05-D07A
meter reading application W05-D07G
monitoring (general) W05-D05C
noise suppression/compensation (general) W05-D05A
office automation application W05-D07E
optical fibre link W05-D06C
power generation/distribution X12-H03A
W05-D07F
power line link W05-D06P
X12-H03E
power supply details W05-D08P
radio link (general) W05-D06A1A
security (general) W05-D05B
transponder-based (general) W05-D08G
ultrasonic link (general) W05-D06A5
utility meter reading application W05-D07G
vehicle application W05-D07D
vehicle service monitoring X22-X16
vehicle theft X22-D03C

Remote reading
electricity meter S01-B01
S02-K08A
X12-H04A
gas meter S02-K08A
pressure measurement S02-F04E
water meter S02-K08A

Removable lens, digital/video camera W04-M01C1D

Repair
circuit breakers X13-B08
electric machines V06-M11M
X11-J08M
integrated circuits U11-C19A
moulded case circuit breakers X13-D08
switchgear X13-E08

Repeater
data transmission W01-A06G5G
line W02-C01E
optical communications systems W02-C04A5
radio W02-G05C

Re-recording
magnetic carrier T03-A07B
magneto-optical carrier T03-D01E
W04-D
optical carrier T03-B05
W04-C05

Rescue equipment P35-A01
cushioning equipment P35-A01G
escape chutes and slides P35-A01E
harness P35-A01A
P35-A03A
winch P35-A01A
Reserve cell X16-A03
sea-water X16-A03B
thermal X16-A03A
Residual current circuit breaker X13-D05
Resin encapsulated semiconductor packages
U11-D01A1
mfg. steps U11-E02A
Resins
analysis S03-E14D7
Resist
coating, semiconductor mfr. lithography U11-C04A1B
for PCB mfr. V04-R01A
for semiconductor mfr. U11-A06
inorganic, for semiconductor mfr. U11-A06B
layer processing, for semiconductor mfr.
U11-C04A1F
organic, for semiconductor mfr. U11-A06A
stripping, semiconductor mfr. Lithography
U11-C04A1C
Resistance cutting - see Welding, resistance
X24-C
Resistance element - see Resistor
Resistance welding - see Welding, resistance
X24-C
Resistance butt welding – see Welding, resistance butt
X24-C09
Resistance, measuring S01-D05B1
in resistor manufacture S01-D05B1
S01-G12A
V01-A04H1
Resistive braking, electric machines V06-N06
X13-H01B
electric vehicle X21-A03C
railway vehicle X23-A01B3
Resistive transducers S02-K03A2A
conversion of sensor output S02-K03A2A
Resistor V01-A
array V01-A02G1
chip V01-A02D
coding V01-A01D
composite V01-A02G
composite RC component V01-A02G5
V01-B03C8
current responsive V01-A02B
electrodes V01-A01C1
encapsulation V01-A01B1
film (discrete device only) V01-A02C
film, novel composition V01-A02C3
film, thick V01-A02C3C
film, thin V01-A02C3A
fixed V01-A02
housings V01-A01B
lead arrangements V01-A01C5
leadless V01-A02D
liquid (low power) V01-A02X
manufacture - see Resistor manufacture
V01-A04
marking details V01-A01D
mounting V01-A01B
network V01-A02G1
power X12-A
semiconductor U12-C03
semiconductor U12-C03A
shielding V01-A01X
substrate details V01-A01A
surface mounting V01-A02D
temp. compensation V01-A02H
temp. dependent V01-A02A
terminals V01-A01C5
testing (see also Resistor manufacture)
S01-G12A
testing - see Resistor manufacture V01-A04H1
thermistor - see Thermistor V01-A02A
thick film (discrete device only) V01-A02C3C
thin film (discrete device only) V01-A02C3A
variable - see Variable resistor V01-A03
varistor/voltage dependent - see Varistor
V01-A02B
wire-wound V01-A02F
Resistor manufacture V01-A04
attaching leads V01-A04F
bandolier V01-A04J
characterised by type V01-A04K
chip resistor V01-A04K4
coating substrate V01-A04B
composite (RC, RL etc.) V01-A04K9
encapsulation V01-A04D
film resistor (discrete device only) V01-A04K3
firing V01-A04E
heat treatment V01-A04E
leadless resistor V01-A04K4
marking V01-A04H5
multistep process V01-A04G1
packing V01-A04J
potentiometer V01-A04K6
resistive material deposition V01-A04B
semiconductor devices U11-C05G1A
separation of chip elements V01-A04K4
V01-A04X
sintering V01-A04E
sorting V01-A04H1
surface mounting resistor V01-A04K4
tape carriers V01-A04J
testing S01-G12A
V01-A04H1
thermistor V01-A04K1
treating deposited layer V01-A04C
trimming V01-A04H3
varistor V01-A04K2
wirewound resistor V01-A04K5
Resonant LC circuit U25-E05B1
Resonant dc-dc converter U24-D02B7
control U24-D01A
U24-D02B7
Resonant tunnelling bipolar transistor
U12-D01A4
Resonant tunnelling FET U12-D02J2
Resonator
electromechanical (See Resonator, electromechanical) V06-V01E

for transit-time tubes V05-C02C1
optical V08-A01A
waveguide - see **Waveguide resonator** W02-A03A
Resonator, electromechanical V06-V01E
arrays of electrodes V06-V02B
bases V06-V02E
ceramic type V06-V01B
circuits V06-V02S
coils V06-V02C
comb electrodes V06-V02B
crystal type V06-V01B
delay lines V06-V04D2
electrodes V06-V02B
electrostrictive V06-V01B
filters V06-V04D1
forks V06-V02B
housings V06-V02E
interdigitated electrodes V06-V02B
magnetostatic backward volume wave type V06-V01E3
magnetostatic forward volume wave type V06-V01E3
magnetostatic surface wave type V06-V01E3
magnetostrictive V06-V01D
manufacture V06-V03A
manufacture, micromachining V06-V03A7
microresonator V06-V01K1
monitoring V06-V03B
mounts V06-V02F
MSBVW type V06-V01E3
MSFVW type V06-V01E3
MSSW type V06-V01E3
nanoresonator V06-V01K2
oscillator application (sinusoidal) U23-A01A
piezoelectric V06-V01B
quartz type V06-V01B
SAW type U14-G V06-V01E1
seals V06-V02E
sensor V06-V04G2
supports V06-V02F
surface acoustic wave type U14-G V06-V01E1
testing V06-V03B
tuning forks type V06-V01B
ultrasonic V06-V01N
Resource allocation, communications
data networks W01-A06E1L
radio W02-C03G1
Respiration measurement S05-D01C1
breathing aids/ventillators S05-G02E
respiratory massage S05-A05A
Retinal projection display W04-Q01L W05-E07
TV receiver W03-A08E7A W04-Q01L
virtual reality W04-Q01L W04-W07E1A
Retort – see Furnaces Q77
Returnable container, for reverse vending T05-H02E
Reverberation time measurement S02-E01
Reverberation, for musical instruments W04-U03E
Reverse engineering
protection against, for IC U11-C19B
protection against, package adaptations U11-D01C3
Reverse vending T05-H02E
RF absorber
general W02-B03D
waveguide component W02-A04B
RF tuner circuitry
broadcast radio receiver W03-B01A
communications receiver W02-G03A
TV receiver W03-A01B
RFI shielding(screening) V04-U
building, for V04-U02
cable, for, (integral) X12-D03E
cable, for, (mountable) V04-U
cans V04-U03
casings V04-U03
computer equipment, for T01-L02D
elements V04-U04
EMC testing V04-U20
Faraday cage, building V04-U02
Faraday cage, room V04-U02
gaskets V04-U04
manufacture V04-U15
materials V04-U01
materials, superconducting U14-F01 V04-U01A X12-D06B
measuring instruments, for S01-J02C
panels V04-U04
PCB, for, (non-track type) V04-Q02A5
PCB, for, (track type) V04-Q05A
room, for V04-U02
telephone, for W01-C01A4
testing for EMC V04-U20
RFI suppression (at source) W02-H01
communications equipment W02-H01C
electric machines V06-M14 X11-J04
non-communications equipment W02-H01A
power converters U24-D01E5 W02-H01 X12-J01E5
Ribbon cable X12-D03A1
Ribbon techniques, semiconductor crystal growth U11-B04
Ribbon, printer
heat sensitive S06-H02
impact type S06-F03
Rice cooker, electric X27-C04
Rifle shooting (sport) P36-A05 W04-X01K5E
Rigid printed circuit board mfr. (see also PCB mfr.) V04-R05C
Ring Laser Gyroscope (see also Gyroscope) S02-B07B

Ringing, telephone set W01-C01F1
- accessory ringer W01-C01F1E
- call type dependent W01-C01F1M
- mechanical ringer W01-C01F1F
- memory storage input for ring tone generation W01-C01F1P
- optical ringer W01-C01F1G
- controlling A/V equipment W01-C01F6
- controlling A/V equipment, internal W01-C01F6A
- controlling A/V equipment, external W01-C01F6C
- volume control W01-C01F1B
- volume dependent upon ambient lighting W01-C01F1D

Rinsing, lithography, semiconductor mfr. U11-C04A1A

Riveting X25-X

Road construction Q41-B, X25-U05

Road maintenance X25-U05
- cleaning, gritting X25-U05

Road signs T07-B
- ancillary signalling T07-B07
- fixed display T07-B05E
- illuminated direction signs T07-B05E
- matrix displays T07-B05C
- motorway lane closure indication T07-B05C
- movable display T07-B05G
- temporary speed limit indication T07-B05C, T07-B05G

Roaming, cellular / wireless W01-E01A
- between different network types W01-E01A3
- between same-standard networks W01-E01A1
- between wireless networks and mobile phone networks W01-E01A3E
- international roaming W01-E01A5

Robot X25-A03E
- assembly-line X25-A03E2, X25-X14
- connector V04-M30R
- control T06-D07B, X25-A03E, X25-A03F
- domestic assistance robot X27-U
- for surgical use S05-B07
- home automation X27-V
- manipulator X25-A03E
- vehicle assembly-line X22-X20A, X25-X14
- walking X25-F05A
- welding X25-A03E1

Robotic vehicle
- general, control T06-B01A
- goods conveying X25-F05A
- goods conveying, control T06-D08F, X25-F05A
- running on tracks X25-F05A1
- running on tracks, control T06-D08F
- vacuum cleaner X27-D04R

Rock crusher P41-A01, P41-V22

Rocker switch V03-C04

Rocket Q25-S
- missile guidance W07-A
- space vehicle W06-B03

Rod element, electric heating X25-B01D

Roll crusher P41-A01E

Roller, fixing, electrophotographic S06-E06B

Roller mill P41-A03A

Rolling X25-A02B
- control T06-D05A1, X25-A02B
- motors X11-H02

Roofs– see Buildings, general mechanical construction and structural elements

ROMs
- electrically erasable (alterable) (EEPROM), matrix layout U13-C04B2
- electrically erasable, flash U13-C04B2
- electrically programmable ROM U13-C04A1
- electronically erasable (alterable) (EEPROM) U14-A03B7
- erasable programmable (EPROM) U14-A03B7
- erasable programmable (EPROM), matrix layout U13-C04A1
- fixed program U14-A06B
- ion implantation programmable U14-A06B5
- mask-programmable U13-C04A, U14-A06B5
- non-electrically erasable U13-C04A, U14-A06C
- non-electrically alterable, matrix layout U13-C04A
- non-programmable U14-A06B
- non-reprogrammable, using diodes U13-C04A, U14-A06B1
- non-reprogrammable, using fuses - see ROMs, non-reprogrammable, using fuses U13-C04A, U14-A06B1
- non-volatile, non-electrically erasable U13-C04A, U14-A06C
- non-volatile, ultraviolet erasable U13-C04A, U14-A06C
- one-time programmable U14-A06B
- permanent U14-A06
- programmable (PROM), matrix layout U13-C04A
- semi-permanent U14-A06
- ultraviolet erasable U13-C04A
- with RAM within memory cell U14-A03B9

Rostrum camera (video) W04-M01J

Rotameter S02-C01A9

Rotary actuator, solenoid-type V02-E02A4

Rotary anode system
- bearings V05-E01B1
- support shaft V05-E01B1

Rotary anode X-ray tube V05-E01H1
- manufacture V05-L05E
- rotary drive system V05-E01B3

Rotary drive system, X-ray tube
- bearings V05-E01B1A
- with anode assembly forming part of motor V05-E01B3C

with separate motor drive V05-E01B3A
Rotary encoder - see Position encoder,
Rotary switch V03-C02
X13-A04C
Rotary solenoid V02-E02A4
Rotary transformer V02-F02D
helical scan recording T03-A05D3A
V02-F02D
Rotary UPS X12-H02C
Rotor V06-M07B
Roughness measurement S02-A10E
using mechanical method S02-A01
S02-A10E
using optical method S02-A03
S02-A10E
using sound or ultrasound S02-A05B
S02-A10E
Roulette P36-C09
W04-X02B
W04-X02E
Router, data networks W01-A06G5E
Routing
data transfer, computing T01-H07C
networks W01-A06E1J
RSSI (received signal strength indicator) W02-G03J1
Rubber
analysis S03-E14D7
working X25-A07
control T06-D14
Ruby laser V08-A04C
Rug P27-B04
Rule-base control system T06-A05A
Rulers S02-A01A
Run length code conversion U21-A05A2B
Running, sport and leisure P36-A03
W04-X01K3A
Runway lights W06-B02E
X26
Rusty bolt effect, interference avoidance or reduction W02-H01

S

S/N ratio improvement in radio receivers W02-G03B
S/N ratio, measuring (for) S01-D08B
electronic amplifier S01-D08B1
optical amplifier S01-D08B3
Sacrificial anode X25-R06
Safe, for storing valuables Q47-U55
T05-L05A
Safety
airport safety W06-B02S
engine ignition safety X22-A01A7
general industrial safety system X25-X12
motor vehicle battery cut-off X22-F09
vehicle airbag Q14-C02
dashboard mounted airbag Q14-C02C3
for protecting driver Q14-C02A1
for protecting front passenger Q14-C02A2
for protecting rear passengers Q14-C02A3
inflatable knee bolster Q14-C02C1
roof mounted airbag Q14-C02C4
side/curtain airbag Q14-C02C2
steering wheel mounted airbag Q14-C02C3
vehicle specific clothing Q14-C16
X22-J11C
vehicle passenger safety Q14-C
X22-J11
pedestrian safety Q14-C15
X22-J11B
Safety systems, general P35-A03
belt P35-A03A
breathing equipment P35-A03E
breathing mask P35-A03E1
environmental suit P35-A03C
harness P35-A03A
harmful chemicals protection P35-A03G
harmful gas protection P35-A03E
hazmat suit P35-A03C
NBC suit P35-A03C
safety belt P35-A03A
safety harness P35-A03A
Sagnac effect gyroscope S02-B07B
Salinity gradient power generation X11-B09
X15-C
Saliva analysis S03-E14H9
Salvage of discharge tube parts V05-L07E6
Sample adaptive offset (SAO), hybrid video coding W04-P01A4L
Sample-and-hold circuits U21-B03
Sample carrier, holder, storage S03-E13F
Sample modification U21-A03F6D
Sampling S03-E13
flowing material S03-E13B2
gases S03-E13C
granular solids S03-E13B
liquids S03-E13B
signals U21-A03F6
solids S03-E13A
Sampling signals (digitising analogue signals) U21-A03F6
oversampling U21-A03F6B

undersampling U21-A03F6C
sample modification U21-A03F6D

SAN T01-N02A2D

Sanitary equipment P28-B
Q42-F

SAO (Sample Adaptive Offset), hybrid video coding W04-P01A4L

SAP (second/separate audio programme)
receiver decoder, radio W03-B02C5
receiver decoder, TV W03-A12B1A
transmission, radio W02-E01A
transmission, TV W02-F06B5

SAR (specific absorption ratio)
measurement, mobile phone W01-C01A4
W01-C01D3C
W01-C01K
reduction, mobile phone W01-C01A4
W01-C01D3C

Satellite
airborne radio relay W02-C03B1F
altitude control W06-B03F
antenna W02-B08F7
W06-B03C
attitude control T06-B01B
W06-B03F
communications equipment
(on-board – physical aspects) W06-B03C
(radio relay station) W02-C03B1B
electrical installations W06-B03H
instrumentation W06-B03J
ion thruster V05-E05A
W06-B03A
mechanical aspects Q25-S01A
navigation S02-B08C
W06-A03A5C
propulsion Q25-S04
W06-B03A
solar panel W06-B03B
X15-A02C

Satellite navigation system S02-B08C
W06-A03A5
for aircraft W06-B01B1
for ship W06-C01B1
for train X23-B05C
for vehicle X22-E06B
global positioning system (GPS) W06-A03A5

Satellite radio broadcasting
receiver W03-A16A
W03-B
system W02-D05A

Satellite radio communications system W02-C03B1
cellular communication W02-C03B1
W02-C03C1
ground station W02-C03B1C
multiple access W02-C03B1D
satellite (on-board) aspects W02-C03B1B
system aspects W02-C03B1A
tracking equipment W02-B06
W02-C03B1C
W06-A02A1
transponder W02-C03B1B
W02-G05C
VSAT W02-C03B1C
W02-G02

Satellite telephone
switching system W01-B05A1E
telephone equipment W01-C01D3E

Satellite transponder W02-G05C

Satellite TV
ancilliary receiver equipment W03-A16A
converter W03-A01A1
broadcast system aspects W02-F06A

Sauna X27-E03A1
medical use S05-A09

SAW device - see Surface acoustic wave device U14-G
V06-V01E1
V06-M06D

Sawing
timber industry X25-X01
tools X25-A03B2

Saxophone P86-A01A1

Scale
dial S02-K06A
for indicating/recording measured values S02-K06A
for weighing S02-D
for POS T05-L01E
indicia S02-K06A
pointer S02-K06A

Scalpel P31-A01

Scan testing
for integrated circuits, at wafer level U11-F01D2A
U13-C07

Scanning
antenna W02-B06
drive system S06-D04
mechanical TV display W03-A08F
mechanical video camera W04-M01E5
optical beam V07-K05

Scanning Tunnelling Microscope - see also analysing tube S03-E02F1
cantilever V05-F04B6A
cantilever displacement detection V05-F04H1
cantilever manufacture V05-L01B2
circuitry V05-F01B5
for processing materials V05-F05D
for processing semiconductors U11-C11
manufacture V05-L05F1A
probe V05-F04B6A
probe manufacture V05-L01B2
V05-F01A5
to measure atomic dimensions S02-A02
S02-A10X

Scaring thieves W05-B01D1

SCART connector
general W03-G07A
TV receiver W03-A18C
VTR W04-B10C
W04-K07

Scatter radio communication system W02-C03X

Scattering
nuclear radiation, materials investigation S03-E06C
optical radiation, materials investigation S03-E04C
OTDR S03-E04C

parameters measuring S01-D05B5A
Scattering spectrometry S03-A02B
Scattering/diffuse reflection, optical
flowing fluid S03-E04C1
material in container S03-E04C2
materials investigation S03-E04C
Scheduler T01-J11F
T01-N03A3
Scientific Analysis (processing) T01-J13
Schmitt trigger
novel circuit U22-A04D5
pulse generator circuit U22-A02E
Schockley diode U12-D01B4
Schottky diode U12-C01C
Schottky ohmic contacts
formation, semiconductor mfr. U11-C05E1
Schrage motor V06-M06
X11-H09
Scintillation detectors S03-G02B1
sensor for investigating materials S03-E06H5B
Scoring, sports P36-A
W04-X01C3
SCPC satellite radio relay systems W02-C03B1
W02-K01A
Scrambling
communications (general) W02-L05
data for secret communications W01-A05A
data for synchronisation loss W01-A05A
avoidance W01-A02
W01-A04
video signals W02-F05A1
Screen
charge storage for CRT V05-D05A5
charge-storage for CRT V05-D05A
lamp fitting/fixture X26-D01D
luminescent for CRT V05-D05B
mfr., for discharge tubes V05-L02
photoelectric for CRT V05-D05A1
projection TV W04-Q01F
semiconductor diode array for CRT V05-D05A3
testing for discharge tube mfr. V05-L02H
video projector W04-Q01F
Screening, EMI/RFI V04-U
building, for V04-U02
cable, for, (integral) X12-D03E
cable, for, (mountable) V04-U
cans V04-U03
casings V04-U03
computer equipment, for T01-L02D
elements V04-U04
EMC testing V04-U20
Faraday cage, building V04-U02
Faraday cage, room V04-U02
gaskets V04-U04
manufacture V04-U15
materials V04-U01
materials, superconducting U14-F01
V04-U01A
X12-D06B
measuring instruments, for S01-J02C
panels V04-U04
PCB, for, (non-track type) V04-Q02A5
PCB, for, (track type) V04-Q05A
room, for V04-U02
telephone, for W01-C01A4
testing for EMC V04-U20
Screen printing, hybrid/thick film circuit mfr.
U14-H04A1
Screen-print solders, for semiconductor mfr.
U11-A05A
Screw bayonet – see Lamp holder X26-F
SDLC W01-A06F
SDMA W02-K09
antenna beam steering aspects W02-B06C
cellular base station aspects W02-C03C1B
directional diversity aspects W02-C03A4
Sea power X15-C
blade details X11-B01
control X15-C03
monitoring X15-C03
ocean current-type X15-C
ocean thermal energy conversion X15-C
osmotic power X15-C
X11-B09
salinity gradient power X15-C
X11-B09
simulation X15-C03
testing X15-C03
tide energy X15-C02
plant type, barrage X15-C02A2
plant type, tidal lagoon X15-C02A3
plant type, tidal stream system X15-C02A1
turbine arrangement X15-C02B
thermal gradient-related energy usage
X15-C
turbine details X11-B01
X11-J
wave energy capture methods X15-C01A
attenuator X15-C01A2
buoy X15-C01A1
oscillating water column X15-C01A3
overtopping device X15-C01A4
point absorber X15-C01A1
surface following X15-C01A2
terminator device X15-C01A3
wave power X15-C01
on-shore X15-C01B1
near-shore/off-shore X15-C01B2
power take-off X15-C01C
wave energy capture methods X15-C01A
Sea-water cell X16-A03B
Seal
battery/cell case X16-F01A
discharge tube V05-M05C
for CRT V05-D07A
IC engine Q51-A03C
Q51-B03C
for transit-time tubes V05-C02B1A
magnetic X25-L06
Sealants for semiconductor U11-A07
Seam welding, arc X24-B01
Search engines T01-N03A2
Searching, information retrieval, data processing T01-J05B3
Searchlight X26
positioning X26-L

Seat switch V03-B01E

Secondary cell X16-B01
- alkaline X16-B01A
- high temperature X16-B01C1
- high temperature sodium-sulphur X16-B01C
- lead-acid X16-B01B
- lithium X16-B01F1
- maintenance X16-B09
- metal-air cell X16-D01
- metal-halogen X16-B01D
- metal-hydrogen X16-B01A3
- nickel-cadmium X16-B01A1
- non-aqueous electrolyte X16-B01F
- sodium-sulphur X16-B01C

Secondary electron detector V05-F04H

Secondary emission
- Auger spectroscopy S03-E06D
- detectors S03-G02B2
- Photoelectric effect S03-E06D
- tube V05-K
- X-ray fluorescence S03-E06D

Secondary emission electrodes, mfr.
- electron multiplier V05-L01A5A
- photoelectric V05-L01A5B
- radiation induced emission V05-L01A5X

Secondary radar systems W06-A04B
- IFF W06-A04B1
- goods/cargo monitoring W06-A04B5G
- industrial, workpiece monitoring W06-A04B5E
- livestock monitoring W06-A04B5A
- object ID W06-A04B5
- people monitoring W06-A04B5C
- RFID tag T04-K03B, W06-A04B5
- security and coding W06-A04B3
- vehicle or aircraft ID W06-A04B1

Secrecy
- anti-eavesdropping telephone systems W01-C08F1C
- facsimile transmission S06-K07C7
- general secret communication W02-L
- subscription TV descrambling system W02-F05A1B, W03-A16C3A
- subscription TV scrambling system W02-F05A1A
- subscription TV scrambling systems W02-F10N1
- telephone systems W01-C08F1C
- telephone set speech processing aspects W01-C01C7L

Secret communication (general) W02-L
- anti-eavesdropping W02-L07C
- antijamming W02-L01C
- eavesdropping W02-L07A
- jamming W02-L01A
- scrambling W02-L05

Secret data transmission W01-A05
- blockwise coding W01-A05A
- data concealment W01-A05L5
- data interception W01-A05L1
- data masking W01-A05L5
- ID verification/access control W01-A05B
- quantum cryptography W01-A05E
- steganography W01-A05L5

Sectional motor X11-H02

Sectionaliser X13-B01

Secure dialling in subscriber telephones
- card-based dialling W01-C01B5A
- mechanical lock W01-C01B5D
- preventing dialling of predetermined numbers W01-C01B5C
- voice recognition/input W01-C01B5B

Securing confidential data in mobile phones W01-C01D3C, W01-C01Q8E

Security, computer
- file access T01-N02B1A
- firewalls T01-N02B1D
- parental control T01-N02B1A
- password, network T01-N02B1B
- password, general T01-J12C
- user monitoring T01-N02B2A
- user privileges T01-N02B1B

Sedimentation measurement S03-F05A

Seeback effect devices - see Thermoelelectric devices U14-E05

Seebeck effect for temperature measurement S03-B01A

Seismic
- prospecting S03-C01
  - well logging X25-E02
- waves, generating S03-C01A

Seismic waves
- detection S03-C01B
- generation S03-C01A
- recording S03-C01B
- transmission S03-C01B

Seismology S03-C01, W06-A05
- generating seismic waves S03-C01A
- processing data S03-C01X
- water covered areas S03-C01C1
- well logging S03-C01C5, X25-E02

Selection (telephony) W01-B
- direct selection W01-B01
- indirect selection W01-B02
- mobile telephone system W01-B05A1
- multiplexing W01-B07
- party line selection W01-B04
- radio or inductive links W01-B05
- signalling W01-B09
- testing W01-B08

Selective calling system
- near-field paging system W02-C02G5, W05-A05C2
- radio paging system W02-C03C3A, W05-A05C2

Selective deposition
- conductive layer, semiconductor mfr. U11-C05C5
- insulating layer, semiconductor mfr. U11-C05B3
- semiconductor layer, semiconductor mfr. U11-C01B1

Selective drop deflection computer printer S06-G02

Selective epitaxial growth
for SOI, IC component isolation U11-C08A6
U11-C08C
for SOI, IC isolation U11-C01J1
Selector switch V03-E
Self-learning control system T06-A05A
Selsyn V06-M06A
Semiconductor
gas sensor S03-E02A
nuclear radiation sensor S03-G02B2G
optical amplifier V07-K01C1
pressure transducer (see also Pressure measurement) S02-F04B3
radiation detectors S03-G02B2
waveguide phase shifter W02-A06C1
waveguide switch W02-A04A5
Semiconductor capacitor U12-C02
for memories U12-C02A1
MIM U12-C02C
MOS U12-C02A
p-n junction U12-C02B
Semiconductor controlled rectifier U12-D01B4
Semiconductor devices (see also specific type of device)
bipolar U12-D01
simulation U11-F01
U11-G
testing, at wafer or die level S01-G02B1
U11-F01D
testing, completed (encapsulated) S01-G02B5
U11-F01C
unipolar U12-D02
Semiconductor devices, interconnections - see Interconnections for semiconductor devices
Semiconductor film measurement U11-F01B
by beam scanning U11-F01B2
during processing U11-F01B1
in reaction vessel U11-F01B1
optical/electron microscopic examination U11-F01B4
thickness U11-F01B5
using image recognition U11-F01B3
Semiconductor inductor U12-C03B
Semiconductor lasers U12-A01B
V08-A04A
arrays U12-A01B1J
V08-A04A
V08-A07
bias circuit U12-A01B4
V08-A02A
characterised by material (excludes AIII-BV compounds) U12-A01B6
V08-A01D
V08-A04A
connection to optical fibre U12-A01C
V07-G10C
control circuitry U12-A01B4
V08-A03
V08-A04A
distributed feedback U12-A01B1
V08-A04A
drive circuitry U12-A01B4
V08-A04A
V08-A02A
electrode formation U11-C05F6
heterojunction U12-A01B1A
V08-A01A
V08-A04A
heterojunction, double U12-A01B1B1
homojunction U12-A01B1
manufacture U12-A01B2
V08-A04A
packages U12-A01B3
V08-A04A
packages with cooling arrangements U12-A01B3A
V08-A04A
V08-A05
ridge waveguide U12-A01B1A
V08-A01A
V08-A04A
with quantum well U12-A01B1B
V08-A01A
V08-A04A
Semiconductor materials U11-A01
AI-BIII-CVI compounds U11-A01X
AII-BIV-CV compounds U11-A01X
AII-BVI compounds U11-A01C
AIII-BV compounds U11-A01B
AIV elements, compounds U11-A01D
AIV-BVI compounds U11-A01X
chemical analysis U11-F01A5
for layer deposition U11-C01J
organic U11-A01F
silicon U11-A01A
silicon, porous U11-A01A1
Semiconductor memories U14-A
U13-C04
Semiconductor on insulator - see SOI
Semiconductor processing U11-C
AII-BVI compounds, doping U11-C02J1B
AII-BVI compounds, etching U11-C07C4B
AII-BVI compounds, layer deposition U11-C01J3B
AII-BVI compounds, treatment U11-C03J8B
AIII-BV compounds, etching U11-C07C4A
AIII-BV compounds, layer deposition U11-C01J3A
AIII-BV compounds, treatment U11-C03J8A
AIV element/compound, etching U11-C07C4C
AIV elements and compounds, doping U11-C02J1C
AIV elements and their compounds, treatment U11-C03J8C
AIV elements, compounds, layer deposition U11-C01J4A
annealing U11-C03J2A
beam treatment U11-C03B
chemical analysis U11-F01A5
chemical vapour deposition appts. U11-C09B
chemical vapour deposition, insulating layer U11-C05B2
chemical vapour deposition, semiconductor layer U11-C01B
conductive layer etching U11-C07C2
conductive layer formation U11-C05C
deposition of semiconductor layer U11-C01

doping U11-C02
electrical treatment U11-C03C
etching U11-C07
etching techniques U11-C07D
etching, silicon layer U11-C07C1
gettering U11-C03J2B
heat treatment appts. U11-C03A
IC copying and use protection U11-C19B
insulating layer etching U11-C07C3
interconnection formation U11-C05D
laser treatment U11-C03D
layer formation U11-C05
lithography U11-C04
localised beam treatment U11-C03J5
localised radiation treatment U11-C03J5
manufacturing control (general) U11-C15D
multi-chamber appts. U11-C09M
nitridation U11-C05B1
optical/electron microscopic examination U11-F01B4
oxidation U11-C05B1
packaging U11-D01
physical deposition U11-C01A
physical deposition, insulating layer U11-C05B2
plasma apparatus U11-C09C
V05-F05C
X14-F02
plasma treatment U11-C03C
process control U11-C15C
process simulation U11-C15C
radiation treatment U11-C03A
U11-C03E
recrystallisation U11-C03J1
resist layer processing U11-C04A1F
resistive layer formation U11-C05G
scanning tunnelling microscope processing U11-C11
self-assembly-monolayer deposition U11-C12
sputtering deposition appts. U11-C09A
strained layer U11-C01J6A
temperature measuring U11-F01A4
treatment producing localised depth profile U11-C03J7
trimming, circuit repair U11-C19A
vacuum apparatus U11-C09Q
vacuum appts. U11-C09Q
viral deposition U11-C12
wafer charging prevention during mfr. U11-C10
wafer identification U11-C15A
wafer labelling U11-C15A
wafer shaping U11-C15A
waste processing U11-C15Q
water purification U11-C15B3

Semiconductor resistor U12-C03A

Semiconductor structures U12-E01
chalcogenide/chalcopyrite compounds U12-E01A4
heterojunctions U12-E01B1
quantum well, wire, supperlatice U12-E01B2
silicon on insulator U12-E01A5
with AII-BVI compounds U12-E01A2
with AIII-BV compounds U12-E01A1
with AIV elements and their compounds U12-E01A3

Semiconductor wafer
circuit testing S01-G02B1
U11-F01D
flatness measurements U11-F01A3
point defects, dust measurements by beam scanning U11-F01B2

Semiconductors
abrasives U11-A10
adhesives U11-A09
annealing for U11-C03J2A
bipolar U12-D01
blanket treatment, heat/radiation U11-C03J3
built-in self test U11-F01D2
carrier concentration measurement U11-F01A1
carrier mobility measurement U11-F01A1
chalcogenide/chalcopyrite, solar cell U12-A02A2E
chemical analysis U11-F01A5
cleaners U11-A10
conductive materials U11-A08B
conductive materials (inorganic) U11-A08B2
conductive materials (organic) U11-A08B1
containers U11-D01
cooling arrangements U11-D02
defects, control U11-C03J2B
deposition of U11-C01
developers U11-A11
dielectric materials U11-A08A
dielectric test U11-F01A9
dislocations, measurement U11-F01A2
dopants U11-A01M
doping U11-C02J
encapsulants U11-A07
etchants U11-A10
etching U11-C07
film measurement, by beam scanning U11-F01B2
film measurement, during processing U11-F01B1
film measurement, optical/electron microscopic examination U11-F01B4
gases, for mfr U11-A12
gettering U11-C03J2B
handling U11-F02
headers U11-D01
heating arrangements U11-D02
impurity reduction U11-C03J2A
indirect bandgap, LED U12-A01A1D
insulating materials for dielectric layer U11-A08A
insulators U11-A08A
layer formation U11-C05
lead arrangements U11-D03
lead attaching U11-E01
lithography U11-C04
measuring, positioning U11-F
mountings U11-D
packages U11-D
polishers U11-A10
positioning U11-F02B
precursor material for deposition process U11-A13
recrystallising layer U11-C03J1
sealants U11-A07
temperature measuring U11-F01A4
terminal arrangements U11-D03
terminals U11-D
testing U11-F01
testing apparatus U11-F01D3
testing IC packaged device U11-F01C3
testing of manufacturing apparatus U11-C09F1
testing probes for IC packaged device U11-F01C3

testing probes, for wafer level testing U11-F01D1
testing using electron microscope U11-F01D3
testing, at wafer level U11-F01D
unipolar U12-D02
ventilating arrangements U11-D02
wafer holders U11-F02A1
U11-F02A2

Sense amplifier for memories U14-A07A

Sensing
digital mark T04-A03

Sensitiser
electrophotography, charge application S06-E02
material in photoconductor S06-E01A3

Sensor
addressing, telemetry W05-D02J
W05-D08E
compensation S02-K02
heat S03-A03
image, facsimile S06-D05
image, video camera W04-M01B5
inductive V02-G01E
integrated optical waveguide V07-F01A5S
pH, electrochemical S03-E03B2
pH, non-electrochemical S03-F10

Separating machine X25-J
control T06-D04
X25-J

Separation of gases by pressure and cold treatment Q75-F
constructional details Q75-T

Separating materials X25-H
sewage treatment X25-H03
water treatment X25-H03

Separating solids
based on size or weight P41-E06
dry P41-E01
magnetic P41-E07
X25-H01
using gas streams P41-E03E
using mechanical agitation P41-E05
wet P41-E03

Separation
electrostatic X25-H02
magnetic X25-H01
mechanical X25-H06

Separator
battery X16-F02
electrolysis, non-metal prodn. X25-R01C
electrolytic capacitor V01-B01B

SEPP converter U24-D02B3
control U24-D01A
U24-D02B3

Serial-parallel conversion, computer input T01-C07C4
with additional features T01-C07C4A

Series transmission code U21-A05C

Series-parallel code conversion U21-A05B

Set-top box W03-A16E
cable TV receiver W03-A16C1
W03-A16E
satellite TV receiver W03-A16A
W03-A16E
video recorder W03-A16E1

Set-up
antenna W02-B08A5
hearing aid W04-Y03P
tuned circuits U25-K

Server
general T01-M06S
interactive broadcasting W02-F10K

Services, coin or card actuated T05-H05C

Servomotor V06-M06E

Sewage treatment – see Water X25-H03
for ship Q24-B10

Sewerage Q42-E

Sewing machine X25-T04C
control T06-D03D
X25-T04C
textiles X25-T04C
lighting (application) X26-U99

Sextants S02-B05

SF6 circuit breaker X13-B03A1A

Shadow mask
details of apertures V05-D05D1A
manufacture V05-L01B5
mask construction V05-D05D1
mask material V05-D05D3
mounting details V05-D05D5
shape of mask V05-D05D1C

Shadow mask mounting V05-D01B3
V05-D05D5
for removal and alignment during exposure V05-D05D5A

Shape memory alloy
actuator V06-M06M
dynamic magnetic head adjustment actuator T03-A05A1A
switch V03-C06B1

Shape of body measurement S05-D01C5

Shaping metal
bending X25-A02D
control - see T06-D05 codes as appropriate T06-D05
control - see X25-A02 codes as appropriate X25-A02
extruding X25-A02
forging X25-A02C
forming X25-A02
hammering X25-A02D
pressing X25-A02A
punching X25-A02D
rolling X25-A02B
wire drawing X25-A02E

Shaping networks, data transmission W01-A08B2

Shaping pulses U22-D

Shaving equipment P24-C02

Shears, electric X25-A03

Sheet
binding, in printing appts. S06-K05A

Sheet thickness measurement - see Thickness measurement

Shelf edge display T05-L01F

Shelters Q46-B03

Shielding
- antimagnetic, for clock or watch S04-A04A1
- EMI – see EMI shielding V04-U
- magnetic heads T03-A03J7
- measuring instruments S01-J02
- radiation, for spacecraft Q25-S06A
- RFI – see RFI shielding V04-U
- thermal, for spacecraft Q25-S06C

Shielding, EMI/RFI V04-U
- aircraft, for W06-B09
- building, for V04-U02
- cable, for, (integral) X12-D03E
- cable, for, (mountable) V04-U
- cans V04-U03
- casings V04-U03
- computer equipment, for T01-L02D
- elements V04-U04
- EMC testing V04-U20
- Faraday cage for building V04-U02
- Faraday cage for room V04-U02
- for space vehicle Q25-S06A
- gaskets V04-U04
- manufacture V04-U15
- materials V04-U01
- materials, superconducting U14-F01, V04-U01A, X12-D06B
- measuring instruments, for S01-J02C
- panels V04-U04
- PCB, for, (non-track type) V04-Q02A5
- PCB, for, (track type) V04-Q05A
- room, for V04-U02
- telephone, for W01-C01A4
- testing for EMC V04-U20

Shift memories U14-A01
- bubble U14-A01A1
- charge transfer device U14-A01B
- FIFO U14-A01X, U14-A08B1
- magnetic U14-A01A

Shift stores U14-A01
- charge transfer devices U14-A01B
- FIFO U14-A01X
- magnetic U14-A01A

Ship W06-C01
- accessories Q24-B
- air-conditioning Q24-B03, W06-C01C5
- anchoring equipment Q24-C02
- attitude control Q24-B09E
- ballasting Q24-A01N
- bilge pump Q24-A01N
- building Q24-X05, W06-C08
- bulkheads Q24-A01I
- cabin Q24-B01
- capsize prevention Q24-B09E
- cargo compartment Q24-B02A
- cargo handling Q24-B02C
- communications W06-C01B7
- construction Q24-A
- control systems W06-C01A
- data bus systems W06-C01B8
- deck Q24-A01H
- door Q24-A03B
- electric propulsion W06-C01C7
- electrical power generation and distribution W06-C01C3, X12-H01B4
- emergency/escape equipment Q24-B09
- engine control W06-C01A1
- entertainment W06-C01C6
- fire extinguishing P35-C01C7E, Q24-B09A, W06-C01C9
- fuel systems Q24-E02M
- furniture Q24-B01A
- galley Q24-B01
- heating Q24-B03
- hull Q24-A01
  - multiple hull Q24-A01P
- hydrodymanic/hydrostatic features Q24-A01A
- hydrofoil Q24-A01A
- inflatable Q24-A01M
- instrumentation Q24-B05, W06-C01B
- keel Q24-A01D
- life saving equipment Q24-X01, W06-C10
- lighting W06-C01C5, X26
- maintenaince W06-C08
- mast Q24-A05
- military equipment Q24-M
- mooring equipment Q24-C01
- Noise/Vibration/Harshness reduction Q24-N
- passenger handling Q24-B02E
- person overboard alarm W05-B07J3
- port equipment W06-C07
- port hole Q24-A03A
- salvaging Q24-X06
- sanitation Q24-B01C
- simulators W06-C04
- steering Q24-E05, W06-C01A5
- testing W06-C05
- toilet Q24-B01C1
- trailer Q19-J, Q24-X11
- washing equipment Q24-B01C2
- window Q24-A03A

Ship propulsion Q24-E
- animal drawn Q24-E02G
- control W06-C01A1
- directly acting on air Q24-E01C
- electric W06-C01C7
- fuel system Q24-E02M
- inboard motor Q24-E02A3
- internal combustion engine Q24-E02A
- gas turbine Q24-E02B
- muscle power Q24-E01G
- nuclear Q24-E02E
- outboard motor Q24-E02A1
- paddle wheel Q24-E01A1C
- propeller Q24-E01A1A
- sails Q24-E01E, Q24-P22
- steam engine Q24-E02C
- steam turbine Q24-E02C1
- transmission Q24-E03
- using non-rotary flaps Q24-E01A3

using supported land vehicle Q24-E02F
using water currents Q24-E01X
vehicle drawn Q24-E02G
water jet propulsion Q24-E01A
Ship type W06-C15
air cushion vessel Q24-P10
W06-C15H
amphibious vessel Q24-P30
W06-C15X
barge Q24-P05
cable laying vessel Q24-P02
canal boat Q24-P09
canoe Q24-P20
W06-C15A
catamaran Q24-A01P
commercial Q24-P25
emergency rescue craft Q24-P28
W06-C15C
environmental disaster cleaning Q24-P06
W06-C15F
ferry Q24-P14
W06-C15D
fishing vessel Q24-P04
W06-C15D1
for sports fishing P36-A07
W04-X01K7A
floating building Q24-P08
flying boat Q25-P12
ground effect craft Q24-P12
ice breaker Q24-P03
jet-ski Q24-P21
W06-C15A
kayak Q24-P20
W06-C15A
life boat Q24-B09C
life raft Q24-B09C
Q24-P19
W06-C15C
light ship Q24-P16
marine vessel transporter Q24-P07
military Q24-P13
W06-C15E
model boat W04-X03E1B
personal watercraft Q24-P21
W06-C15A
pipe laying vessel Q24-P01
pontoon Q24-P17
raft Q24-P19
recreational Q24-P21
W06-C15A
sail board Q24-P21
W06-C15A
sailing boat Q24-P22
submarine Q24-P11
W06-C15B
submersible/semi-submersible Q24-P11
W06-C15B
surfboard Q24-P21
W06-C15A
swamp boat Q24-P30
W06-C15X
tanker Q24-P24
W06-C15D3
trawler Q24-P04
W06-C15D1
trimaran Q24-A01P
tug Q24-P15
W06-C15D
unmanned Q24-P30
W06-C15U
windsurfer Q24-P21
Shipping container
(general electronic component) V04-X01A
(general goods tracking) X25-F11
Shock absorber, testing S02-J02A
Shock absorbing in recording equipment T03-L05S
Shock measurement S02-G03
calibration S02-G07A
compensation S02-G07C
testing S02-G07E
Shock switch V03-C06C
Shock testing of structures S02-J08
Shock wave generator, ultrasonic surgery S05-B02
V06-V01N
V06-V04C
V06-V04K
Shoes - see Footwear
electrical details X27-A02B1B
non-electrical details P22
Shooting, sport and leisure P36-A05
W04-X01K3J
Short messaging service (SMS)
selection and calling aspects W01-B05A1F
subscriber telephone aspects W01-C01G6A
telephone exchange aspects W01-C02B7D
Short-circuit protection X13-C01A
Short-circuit testing S01-G04A1
Shower
electrical details X27-E03A1
non-electrical details P28-B02
shower head P42-A03A
Shredder
small/office use/domestic X27-A02C
large size shredder X25-J
Shutter control for camera
digital camera W04-M01B1
W04-M01D5C
photographic film camera S06-B02C
video camera W04-M01D5C
Sidewall spacer, insulating layer, semiconductor mfr. U11-C05B9B
Sidewall spacers, insulating layer, semiconductor mfr. U11-C05E
Signal connector - see Connector
Signal generators- testing S01-G08B1
Signal processing
audio - see **Audio signal processing**
W04-G
speech - see **Speech processing**
W04-V
video - see **Video signal processing**
W04-P
Signal processing in recording equipment
analogue (general) T03-P02
audio (dynamic recording) W04-G01A

audio (static recording) W04-G01B
audio noise/distortion reduction W04-G01D
audio signal coding and decoding W04-G01F
audio tape recorder W04-B12B
copy marking (audio) W04-G01L3
copy marking (general) T03-P07C
copy marking (video) W04-F01L3
copy prevention (audio) W04-G01L1
copy prevention (general) T03-P07A
copy prevention (magnetic) T03-A07A3B
W04-B01C1A
copy prevention (video) W04-F01L1
digital (general) T03-P01
digital compression coding (general)
T03-P01B
error correction/detection (general) T03-P01A
general T03-P
video - see Video recording signal processing W04-F
video tape recorder W04-B10B

Signal scrambling
facsimile S06-K07C8
general W02-L05
TV/video signals (general) W02-F05A1A
TV/video signals, interactive broadcasting
W02-F10N1

Signal switching
electronic switch arrangements U21-B05E
general/telephone W01-B
video W04-N05B5

Signal to noise ratio, measuring S01-D08B
for electronic amplifier S01-D08B1
for optical amplifier S01-D08B3

Signal transformation, video recording
W04-F01

Signal transmission medium for telecontrol or telemetry
data network-based W05-D06F
W01-A06
hydraulic link W05-D06M
mechanical link W05-D06M
mud-pulse telemetry W05-D06M1
near field W05-D06A1B
optical fibre link W05-D06C
optical free-space link W05-D06A3
pneumatic link W05-D06M
power line W05-D06P
radio link W05-D06A1A
telephone line W05-D06G1
ultrasonic link W05-D06A5

Signalling (alerting and personal calling)
W05-A
acoustic / audible W05-A02
acoustic alerting device (novel) W05-A02A
audio-visual indication W05-A04
display-based indication W05-A03C
electromagnetically-operated indicators
W05-A03X
electric transmission W05-A01C
electromagnetic transmission W05-A05
hydraulic transmission W05-A01A
IR transmission W05-A05B
mechanical transmission W05-A01A
pneumatic transmission W05-A01A
pagers W05-A05C1
power line signalling W05-A01C3
radio transmission W05-A05A
siren W05-A02
telephone signalling W05-A01C1
testing W05-A
W05-C
vibration signalling W05-A01A1
UV transmission W05-A05B
visible indication W05-A03
visible indicator (novel) W05-A03E
visible light source W05-A03A

Signalling (train/tram) X23-B
ATC X23-B02
ATP X23-B02
ATS X23-B02
axle counter X23-B01A
classification yard X23-B05
electric train/tram X23-B
integrated and central traffic control X23-B05C
lamp X23-B03
marshalling system X23-B05
operating points X23-B03
points X23-B03
points/signals interlocking X23-B04A
points/signals interlocking, solid-state
X23-B04A1
radio communication link X23-B02C
radio communication link for speech
X23-B02C1
rail/road crossing system Q21-S07
X23-B05A
railway, portable warning device X23-B04E1
station blocking X23-B04C
track circuit X23-B01C
track-side to train/tram-mounted device X23-B02
traffic control X23-B05
train detector X23-B01
train-end passage detection X23-B01A
train/tram-mounted device to track-side
X23-B01
transponder X23-B02A
warning device along route X23-B04E

Silicon carbide - see AIV elements and their compounds

Silicon on insulator - see SOI

Silicon on sapphire - see SOI

Silicon, porous U11-A01A1

Silicon-germanium semiconductor - see AIV elements and their compounds

Silylating, lithography, semiconductor mfr.
U11-C04A1A

SIM card W01-C01D3D
multi-SIM mobile phone W01-C01D3K

SIMM T01-H01B3A

SIMOX, IC component isolation U11-C08A6

SIMS - see also mass spectrometer S03-E10A4
of non-electrical systems T01-J15H

Simulator
aircraft Q25-X04
W06-B04
educational P85-A05A
W04-W07A
W04-W07C

logic U21-C03D
medical procedures S05-P
military W07-D05
nuclear power plant W04-W07
X14-C05X
power distribution/transmission system
X12-H05
protection X13-C20A
radio communications W02-C03E5
ship W06-C04
training P85-A05A
W04-W07A
W04-W07C
vehicle driving X22-X

Single character display, control of T04-H03A
Single chip computer U13-C05
Single lens reflex digital camera W04-M01B1S
Single Photon Emission Computed Tomography - see nuclear imaging
Single-sideband (SSB) radio W02-G04C
Sintered electrolytic capacitor electrode - see Electrolytic capacitor V01-B01A1
Sinusoidal oscillators (using)
amplifier with feedback U23-A01
electomechanical resonator U23-A01A
negative resistance elements U23-A02
SAW resonator U23-A01A1
transit-time effects U23-A02
SISFET - see Field effect transistor U12-D02A5
SIT (static induction transistor) imager
U13-A01B1
Skateboard P36-E07
W04-X03E2
Ski safety binding release force measurement P36-A03
P36-A08A
S02-F03A
W04-X01H
W04-X01K3P
Skiing P36-A03
W04-X01K3P
Skin, passing drugs through S05-J02
Slate crusher P41-A01
P41-V22
Sledge Q22-C01
Sleeve for insulating direct connection
V04-A08
Slide (playground equipment) P36-E07
W04-X03E2
Slide switch V03-C01B
X13-A04B1
Slip-ring V04-L01A
manufacture V04-P02
manufacture, motors V06-M11A
X11-J08A
motors V06-M12
X11-J03
SLR digital camera W04-M01B1S
SMA
actuator V06-M06M
switch V03-C06B1
Small form-factor hard disk drive T03-A08A1E
Small scale power generation plant V06-P02
chip-scale V06-P01
MEMS-scale V06-P01
solar X15-A04
wind X15-B04
Small scale solar power generation X15-A04
Smart battery X16-H09
Smart card – see smart media T04-K03A
Smart connector V04-M11
Smart grid X12-H08
Smart media T04-K
antenna T04-K01C
media per-se T04-K01
V04-Q02A3
contactless T04-K02B
V04-Q02A3A
contact type T04-K02A
V04-Q02A3B
data transfer system W02-C02G7
feeding T04-K02C1
fraud protection T04-K04
hybrid V04-Q02A3C
interface, digital computer T01-C07C1
media types T04-K03
printed circuit aspects V04-Q02A3
reader or writer T04-K02
construction T04-K02C2
semiconductor package U11-D01A7
twin V04-Q02A3C
vending machine actuated by T05-H02C5C
Smart phone W01-C01G8
Smart protector U24-F03
Smart relay V03-D20
Smart sensor V06-V01Q
V06-V04G
Smart transducer V06-V01Q
Smart TV W03-A16C5K
Smoke alarms W05-B02A
Smoke detection
ionisation chamber S03-E10
W05-B02A3
optical sensing W05-B02A1
scattering or diffuse light reflection S03-E04C1
W05-B02A1
Smoothing choke U24-D01E
SMPS U24-E02B2A
SMPTE time code recording W04-H01A
Snap-action switch V03-B03A
X13-A04A
Snooker (game) P36-A01
W04-X01K1E
Snow detection S03-D02B
for non meteorological application S03-D02B1
for vehicle application X22-X06E
Snowboarding P36-A03
W04-X01K3P
Snow plough X25-U05

Snubber circuits, power converters U24-D01B1
active U24-D01B1C
dissipative U24-D01B1F
non-dissipative U24-D01B1H
passive U24-D01B1A
Socket
CRT V04-K09
V05-D08C5
for hybrid circuits U14-H05
V04-B01
V04-K02
V04-M05
for IC testing U11-F01C1
V04-B01
V04-K02
V04-M05
for semiconductor devices U11-D01Q
V04-B01
V04-K02
V04-M05
for semiconductor package transport (to prevent lead deformation) U11-F02A4
lamp V04-K01
X26-F
semiconductor device, printed circuit-mounting U11-D01Q
V04-B01
V04-K02
V04-M05
Socket connector - see Connector
Sodium-sulphur cell X16-B01C
electrode X16-E10
Sofa P26-B
manufacture P26-M
SOFC X16-C01A
Software
assembly language program listing T01-S01A
claimed software product T01-S03
computer program T01-S01
computer programming techniques T01-J20A
database Applications T01-J05B4P
error prevention for memories U14-A11
information retrieval, data processing T01-J05B4
low-level language listing T01-S01A
machine language program listing T01-S01A
networks W01-A06E
patents with algorithms T01-S01C
patents with high-level language listing T01-S01B
patents with low-level language listing T01-S01A
patents with pseudo-code T01-S01C
program listing T01-S01
software content T01-S
T01-S01
software development T01-J20
software patent T01-S02
software registration and anti-piracy T01-J20B2A
source code listing T01-S01B
virus protection T01-J20D
Software-controlled radio receiver W02-G03K
Software development T01-J20
Application Programming Interface T01-J20B1
computer programming techniques T01-J20A
debug T01-J20C
software libraries and version management T01-J20B2
general version management T01-F05F
software registration and anti-piracy T01-J20B2A
specifications, tools and techniques T01-J20B
testing T01-J20C
verification T01-J20C
virus protection T01-J20D
Software update T01-F05B2
T01-J20B2
mobile phone W01-C01D3C
W01-C01Q3A
TV receiver W03-A18A8A
SOI
bipolar transistor U12-D01A5
discrete devices U12-E01A5
IC component isolation U11-C08A6
integrated circuit structures U13-D07
unipolar transistor U12-D02A4
Soil
contamination treatment P43-J
investigation S03-E14E7
reclamation P43-J
shifting X25-D01
shifting, control T06-D08E
X25-D01
Soil working
cleaning, maintenance/repair of systems P11-G
constructional details of tools and machinery P11-T
raking P11-A04
tilling P11-A05
using hand tools P11-A01
using harrows P11-A03
using ploughs P11-A02
Soil working, planting and fertilizing
planting, sowing P11-B01
types of goods produced P11-E
Solar cell U12-A02A
X15-A02A
array U12-A02A5
X15-A02B
chalcogenide semiconductor U12-A02A2E
chalcopyrite semiconductor U12-A02A2E
characterised by structure U12-A02A2Q
circuitry, power transfer U12-A02A7
CVD (large area), for mfg. U11-C01C
doping for U11-C02J7
U12-A02A3
dye sensitised solar cells U12-A02A8
X15-A02D1
X16-A04
electrode details U12-A02A4A
for mfr. CVD (large area) U12-A02A3
Gratzel cell X15-A02D1
manufacture U12-A02A3
organic X15-A02F
package U12-A02A4E
panel X15-A02C
panel, roof attachments X15-A02X
panel, electric vehicle X21-B04A
panel, spacecraft W06-B03B

panel, vehicle X22-F03
panel, wiring X15-A02X
pigment sensitised solar cells U12-A02A8
X15-A02D1
radiation treatment (large area), for mfr.
U11-C03J4
simulation X15-A08
structure, with AI-BIII-CVI compounds
U12-A02A2E
structure, with AII-BIV-CV compounds
U12-A02A2E
structure, with AII-BIV-CVI compounds
U12-A02A2E
structure, with AII-BVI compounds U12-A02A2A
structure, with AIII-BV compounds U12-A02A2B
structure, with AIV elements and their compounds U12-A02A2C
structure, with amorphous, polycrystalline semiconductor U12-A02A2F
substrate details U12-A02A4B
tandem U12-A02A4C
thin film U12-A02A2
U12-B03B

Solar heating X27-E01A5

Solar lighting (electric details) X26-G

Solar power X15-A
cell (solar/photovoltaic -) details X15-A02
single cell X15-A02A
assembly of cells X15-A02B
cogeneration solar plant X15-A05K
collector X15-A01A
combination solar plant X15-A05H
concentrator X15-A01C
heliostat X15-A01C3
lens X15-A01C2
mirror X15-A01C1
parabolic trough X15-A01C1
tracking arrangement X15-A01C3
working fluid X15-A01A1
control X15-A08
dye-sensitised solar cells X15-A02D1
X16-A04
electricity generation, using solar cells
X15-A02A
electricity generation, using steam X15-A09
for spacecraft W06-B03B
for domestic use X15-A04
for electric vehicle X21-B04A
for motor vehicle X22-F03
for spacecraft W06-B03B
Gratzel cell X15-A02D1
heat collecting panels X15-A01A
heat collecting pipes X15-A01A
heliostat X15-A01C3
hybrid solar plant X15-A05H
large scale X15-A05
lens X15-A01C2
micro application X15-A04
mirror X15-A01C1
monitoring X15-A08
panel X15-A02C
panel, roof attachments X15-A02X
panel, solar cell X15-A02A
panel, solar cell assembly X15-A02B
panel, wiring X15-A02X
parabolic mirror X15-A01C1
photoelectrochemical cell X15-A02D
X16-A04
reflector X15-A01C1
simulation X15-A08
single cell details X15-A02A
U12-A02
small scale X15-A04
solar/photovoltaic panel details X15-A02C
solar chimney X15-A05A
solar Stirling engine X15-A05B
solar tower X15-A05A
steam generation X15-A09
sun tracker X15-A01C3
testing X15-A08
water heating X27-E03
working fluid X15-A01A1

Solder
cream/paste application X24-A09
cream/paste application, pressure dispensing X24-A09
cream/paste application, screen printer
X24-A09
cream/paste application, stencil printer
X24-A09
dispenser X24-A09
P55-T02A
feeding device X24-A09
P55-T02C
for semiconductor terminals U11-D03B3
material X24-A01A
P55-D01
testing S03-E14C3X
wettability measurement S03-F04

Soldering X24-A
P55-B01
accessories X24-A04
brazing P55-B02
de-soldering P55-B03
electric X24-A
flux X24-A01A
fluxless, PCB V04-R04A5C
inspection X24-A09
iron X24-A02A
iron, bit X24-A02A
material X24-A01A
measurements X24-A09
method X24-A01C
reflow X24-A02E
reflow, electric heating X24-A02E
reflow, electric heating iron X24-A02A
reflow, hot gas X24-A02E
reflow, IR X24-A02E
reflow, laser X24-A02E
X24-D03
reflow, vapour phase X24-A02E
testing X24-A09
wave X24-A02C
wave, bath X24-A02C

Solenoid V02-E02A
actuator V02-E02A
actuator, linear V02-E02A3
actuator, rotary V02-E02A4
valve V02-E02A1
X25-L01A

Solenoidal motor V06-M04

Solidification of gases by pressure and cold treatment Q75-F
constructional details Q75-T
Solid electrolyte
battery X16-J01
battery, inorganic X16-J01C
battery, organic X16-J01A
Solid electrolytic capacitor - see Electrolytic capacitor
Solid free form fabrication X25-A08
Solid oxide fuel cell X16-C01A
monolithic X16-C01A3
tubular X16-C01A1
Solid polymer fuel cell X16-C01C
Solid sampling S03-E13A
Solid separation
based on size or weight P41-E06
dry P41-E01
magnetic P41-E07
X25-H01
using gas streams P41-E03E
using mechanical agitation P41-E05
wet P41-E03
Solid state cooling X27-F02B1
Solid state lasers V08-A04C
Solid state protection relay X13-C10
Solid thermionic cathode V05-M02
Solid-state (analogue) protector U24-F04
Solid waste disposal (general) P43-E
by burning P43-E01
by burying or dumping P43-E03
by treating or converting P43-E05
Soliton optical communication W02-C04B7
Sonar and analogous systems W06-A05
Sonar system
applications W06-A05H
calibrating W06-A05C6
determining target position W06-A05D1
displays W06-A05C3A
for air, sea, land vehicles W06-A05H1
for aircraft W06-A05H1B
for anti-collision purposes W06-A05H1K
for industrial applications W06-A05H8
for land vehicles W06-A05H1A
for object identification W06-A05B5
for ships W06-A05H1C
for tracking, target seeking W06-A05H5
for vehicle/boat identification W06-A05B1
mapping/imaging W06-A05H3
monitoring W06-A05C6
primary W06-A05D
receiver circuits W06-A05C3
secondary W06-A05B
security/coding aspects W06-A05B3
sonobuoys W06-A05C5
synthetic aperture W06-A05J
testing W06-A05C6
transducers V06-V01N
W06-A05C7
circuits V06-V01N
V06-V02S
communications V06-V01N
V06-V04B
instrumentation V06-V01N
V06-V04G1
manufacture V06-V01N
V06-V03A
testing V06-V01N
V06-V03B
transmitter circuits W06-A05C1
using different response medium W06-A05B7
using relative movement W06-A05D2
Sonic diagnosis, medical S05-D03
image processing S05-D03E
medical transducer details S05-D03A1
non-transducer details S05-D03B
transducer arrangements S05-D03A2
Sonic systems
hydrophone W02-C07C
parametric audio system W04-S05P
sonic communication system W02-C07A
remote control or monitoring using sonic link W05-D06A5
Sonic/ultrasonic analysis of fluids S03-E08C
Sonobuoys W06-A05C5
SOR X14-G02
Sorter
sheet, copier S06-K02C
Sorting P41-K
coin (general) T05-K01
coins in coin freed appts T05-H03
control T06-D15
general record carriers T04-J02
industrial X25-F06
manufactured objects T05-K05
recycling processes / systems X25-W04
semiconductor devices U11-F01
using pattern recognition T04-D07B
valuable paper, banknotes, mail T05-K02
Sound
antiphase cancelling (electronic) W04-V07
damping (general) P86-E05E
intensity measurement S02-E
transmission (general) P86-E05A
wave analysis (electronic) W04-V
Sound detector for TV receiver W03-A03C1
Sound field control W04-R05
Sound mixing W04-G05
circuitry W04-G05C
control W04-G05A
interfacing W04-G05B
Sound-producing devices (non-musical) P86-E
alerting (electrical) W05-A02A
bell P86-E01A1
klaxon P86-E01C3
rattle P86-E01A5
siren P86-E01C1
whistle P86-E01C5
Sound-to-light conversion equipment W04-U08
Space shuttle Q25-S01B
W06-B03

Space vehicle Q25-S
W06-B03
antenna W02-B08F7
artificial satellite Q25-S01A
communications installations W06-B03C
electrical installations W06-B03H
electrical systems for on-board experimentation or mfr. W06-B03E
fire extinguishing P35-C01C7A
Q25-S06
W06-B03X
instrumentation Q25-S03
W06-B03J
ion beam thruster V05-E05A
W06-B03A
life support systems W06-B03D
load accommodation arrangements Q25-S11
microwave thruster W06-B03A
moon buggy Q25-S01D
W06-B03X
navigation Q25-S02
W06-B03F
on-board experimentation/mfg. systems W06-B03E
position / attitude control W06-B03F
power supplies W06-B03B
propulsion systems Q25-S04
W06-B03A
propulsion systems, plasma W06-B03A
X14-F04
solid rocket booster Q52-B03
space craft Q25-S01B
space rocket Q25-S01C
space shuttle Q25-S01B
space station Q25-S01A
testing W06-B05

Spacesuit Q25-X01
W06-B03D

Spacing elements
discharge tube, manufacture V05-L03A1
plasma display, internal spacers, seals V05-A01D3

Spacing measurement S02-A10B
using mechanical method S02-A01
S02-A10B
using magnetic/electric method S02-A02
S02-A10B
using optical method S02-A03
S02-A10B
using atomic or nuclear radiation S02-A05A3
S02-A10B
using microwaves S02-A05A1
S02-A10B
using sound or ultrasound S02-A05B
S02-A10B

Spam filtering T01-N02B1C

Spark gap X12-F01
arcing horn X12-F01A
X13-C03A
circuit X12-F02
manufacture X12-F09
overvoltage protection X12-F01A
X13-C03A

Spatial diversity radio communication
W02-C03A1

Spatial division multiple access W02-K09
antenna beam steering aspects W02-B06B
cellular base station aspects W02-C03C1B
directional diversity aspects W02-C03A4

Spatial light modulation - see Optical modulation, spatial

SPC telephone switching W01-B02A1

Special effects
lighting W04-X03C
X26-M
musical instrument W04-U03E
TV/video - see TV special effects W04-N05C

Special subscriber telephone services (exchange based) W01-C02B
alarm call systems W01-C02B8
alarm monitoring W01-C02B7B
automated directory enquiries W01-C02B7E
call barring W01-C02B2G
call diversion W01-C02B2E
call forwarding W01-C02B2L
call holding W01-C02B4A
call transfer W01-C02B2M
caller ID transmission W01-C02B3C
caller ID withholding W01-C02B3E
camp-on and call back W01-C02B3A
centralised answering W01-C02B4
centralised autodial W01-C02B5
checking entitlement and ID W01-C02B6A
conference systems W01-C02B1
denying access to services W01-C02B6C
directory enquiries (auto) W01-C02B7E
direct inward dialling W01-C02B2A
graded service W01-C02B6
Multimedia messaging service W01-C02B7F
paging W01-C02B7A
Presence-Enhanced Contacts W01-C02B2N
reply dialling W01-C02B5A
SMS W01-C02B7D
successive ringing of extensions W01-C02B2C
time-dependent call handling W01-C02B2J
voice mail W01-C02B7C

Special subscriber telephone equipment
W01-C01G
conference telephone W01-C01G5
email-equipped phone W01-C01G6C
hands-free kit (headset) W01-C01G2C
instant messaging W01-C01G6F
intercom W01-C01G1
internet W01-C01G6E
key telephone set W01-C01G3
loudspeaker W01-C01G2A
menu-driven telephone W01-C01G8A
multifunction telephone W01-C01G8
Multimedia Message Service W01-C01G6B
push to talk over packet network W01-C01G6H
screen text telephone system W01-C01G6
SMS / text W01-C01G6A
video telephone W01-C01G4

Specific absorption ratio (SAR)
measurement, mobile phone W01-C01A4
W01-C01D3C
W01-C01K
reduction, mobile phone W01-C01A4
W01-C01D3C

Specific heat measurement S03-E01C

Specimen preparation S03-E13
automatic analysers S03-E13D1

materials investigation S03-E13D
SPECT - see nuclear imaging S03-G02C3
Spectacles X27-A02D
lenses P81-A01
P81-A50G
Spectacles for 3D viewing X27-A02D
with filters W03-A08E7E
with polarizers W03-A08E7E
with shutters W03-A08E7C
Spectrometer
energy V05-J01A5
gamma ray S03-G02C3
mass V05-J01A1
S03-E10A
neutron S03-G02C3
secondary ion mass (SIMS) V05-J01A1
X-ray S03-G02C3
V05-F01A6
Spectrometry S03-A02
absorption S03-A02B
atomic absorption S03-E04A5G
atomic emission S03-E04D3
atomic emission, inductively coupled S03-E04D3A
attenuated total reflection S03-E04A5S
calibrating optical spectrometers S03-E04P
compensation aspects of optical spectrometers S03-E04P
double-beam S03-A02B
dual wavelength S03-E04A4
emission, optical S03-A02X
energy S03-E10B
flicker S03-A02B
FTIR S03-A02F
generating spectrum by diffraction grating or prism S03-A02A
infrared S03-E04A5B
interferometric S03-A02F
IR S03-A02B
mass - see mass spectrometer S03-E10A
monochromator S03-A02A1
optical absorption S03-E04A5
optical computerised tompgraphy S03-E04C3
optical, cuvettes S03-E04X
optical, gaseous phase S03-E04A5G
optical, liquid phase S03-E04A5L
optical, on-line measurements S03-E04J
optical, solid phase S03-E04A5S
optical, using FFT S03-E04T
Raman S03-A02B
Raman, materials investigation S03-E04D1
specular reflectivity, optical S03-E04B1B
testing optical spectrometers S03-E04P
transmission, optical S03-E04B1A
ultraviolet S03-E04A5E
visible S03-E04A5E
X-ray S03-E06D
Spectrophotometry - see Spectrometry and Optical testing S03-A02
Spectroscopy (see also Spectrometry)
admittance S03-E02C5
DLTS S03-E02C5
optical - see Optical testing S03-E04
Spectrum analyser S01-D03C1
Specular reflectivity for materials investigation S03-E04B1B
Speech amplifier for telephone set W01-C01C1
Speech analysis/recognition
applications W04-V04A
comparing with reference W04-V04A8
determining emotional status of speaker W04-V04A4
determining gender of speaker W04-V04A3C
determining presence of speech/voice W04-V04A1
identifying speaker W04-V04A3A
methods W04-V01
speech-to-text system W04-V04A6
voice activated control, equipment W04-V04A5
voice activated control, telephone W01-C01Q4
W04-V04A5
Speech processing (digital)
coding systems -see Speech signal coding W04-V05G
correlation W04-V05C
filtering W04-V05A
noise reduction W04-V05E
pitch changing W04-V05J1
rate conversion W04-V05J5
telephone W01-C01C7
Speech signal coding
CELP W04-V05G3A
comfort noise W04-V05G6
dynamic W04-V05G8
excitation codebook W04-V05G3A
involving simulation W04-V05G1
predictive coding W04-V05G3
sample rate conversion W04-V05J5
simulation coding W04-V05G1
transform coding W04-V05G5
VSELP W04-V05G3A
Speech synthesis
applications W04-V04C
methods W04-V02
novel circuitry W04-V04E
text-to-speech W04-V04C1
Speech therapy, medical S05-A09
Speed
checker, using timing S04-C03C2
control T06-B09
control, electric T06-B09B
measurement S02-G01
tachogenerator V06-M06C
Speed changing, tape T03-E04
Speed control
auxiliary non-electric power-type T06-B09A
disk (recording equipment) T03-F02A1
tape (recording equipment) T03-E03A
without auxiliary power T06-B09A
Speed measurement
calibration S02-G07A
compensation S02-G07C
electrically/magnetically S02-G01B
mechanicallly S02-G01X
optical S02-G01A
testing S02-G07E
using doppler methods S02-G01D
using timing S04-C03C2

vehicle (external) T07-A01A1
Speed measuring devices constructional details S02-G09
Speed of sound, measuring S02-E01
Speed regulation, electric machines - see Electric machines regulation/control
Speed sensitive switch V03-C06C
Speedometer S02-G01
SPFC X16-C01C
Spin drier X27-D02
Spinning X25-T02
control, yarn T06-D03B
Spin torque oscillator U23-A05
Spintronics
devices U12-B01B
magnetic recording read heads T03-A03C3
oscillators U23-A05
Splices, optical fibre V07-G10B
Spools for recording tape
general T03-E01A
tape cassette component T03-H01B7
T03-N03
Sports P36-A
W04-X01
ball out-of-play detector W04-X01C1C
bowling alley pin-setter W04-X01F
computerised sports equipment T01-J30D
counting, timing W04-X01C1A
equipment per se P36-A08A
W04-X01E
firearms for hunting/sport P36-A05
P36-A07
P36-A08A
W04-X01E
W04-X01K5E
W04-X01K7C
fitness training equipment P36-A06
W04-X01A5
goal-line technology, football W04-X01C1
W04-X01K1J
grounds, stadia P36-A08C
W04-X01F
locators/guiding systems W04-X01D
performance monitors W04-X01A1
rehabilitation equipment W04-X01A5
scoring W04-X01C3
simulators W04-X01A3
training equipment P85-A01N
W04-X01A
Sports and leisure activities P36-A
W04-X01K
air sports P36-A03
W04-X01K3N
American football P36-A01
W04-X01K1R
angling P36-A07
W04-X01K7A
athletics P36-A03
W04-X01K3A
archery P36-A05
W04-X01K5A
ball-based play P36-A01
W04-X01K1
badminton P36-A01
W04-X01K1P
baseball P36-A01
W04-X01K1A
basketball P36-A01
W04-X01K1C
beach volleyball P36-A01
W04-X01K1V
billiards P36-A01
W04-X01K1E
boxing P36-A04
W04-X01K4A
clay pigeon shooting P36-A05
W04-X01K5E
combat-based sports P36-A04
W04-X01K4
cricket P36-A01
W04-X01K1G
cycling P36-A03
W04-X01K3C
darts P36-A05
W04-X01K5C
fencing P36-A04
W04-X01K4C
fishing P36-A07
W04-X01K7A
golf P36-A01
W04-X01K1L
gliding P36-A03
W04-X01K3N
hang gliding P36-A03
W04-X01K3N
hockey P36-A01
W04-X01K1N
horse racing and riding P36-A03
W04-X01K3E
hunting P36-A07
W04-X01K7C
ice hockey P36-A01
W04-X01K1N
jogging P36-A03
W04-X01K3A
laser-simulated shooting P36-A04
W04-X01K4E
martial arts P36-A04
W04-X01K4A
motor racing P36-A03
W04-X01K3G
paintball P36-A04
W04-X01K4E
parachuting P36-A03
W04-X01K3N
parascending P36-A03
W04-X01K3N
pool (indoor game) P36-A01
W04-X01K1E
power boat racing P36-A03
W04-X01K3L
racquet sports P36-A01
W04-X01K1P
rugby P36-A01
W04-X01K1R
running P36-A03
W04-X01K3A
sailing P36-A03
W04-X01K3L
snooker P36-A01
W04-X01K1E

shooting P36-A05 W04-X01K5E
shuttlecock-based play P36-A01 W04-X01K1P
surfing P36-A03 W04-X01K3L
swimming P36-A03 W04-X01K3J
table tennis P36-A01 W04-X01K1T
tennis P36-A01 W04-X01K1P
volleyball P36-A01 W04-X01K1V
water skiing P36-A03 W04-X01K3L
wind surfing P36-A03 W04-X01K3L
wrestling P36-A04 W04-X01K4G

Sports equipment P36-A08A W04-X01E

Sports grounds P36-A08C W04-X01F

Spot welding, resistance X24-C09

Spray head P42-A
multiple nozzles or jet P42-A03
novel nozzle or spray head P42-A P42-T01A
variable characteristics P42-A05

Spray boom P42-A03C

Spraying P42-A
electrostatic X25-K01
other X25-K09
vehicle Q15-B09

Spread-spectrum communication systems W02-K05
antijamming W02-K05A5
carrier-based impulse communication W02-K05A9C
carrier-free impulse communication W02-K05A9A
CDMA W02-K05A7
combined frequency hopping and CDMA system W02-K05A8
direct sequence W02-K05A7
frequency hopping W02-K05A6
hybrid W02-K05A8
increased reliability W02-K05A1
pseudo noise code details W02-K05B5
secrecy W02-K05A5
synchronising W02-K05B7
ultrawideband (UWB) and time-hopping systems W02-K05A9

Spread-spectrum energy dispersal for RFI reduction (EMC viewpoint) W02-H01G3E

Spreadsheet T01-J11G

Spring balances S02-F01A

Spring for clock or watch S04-A03

Sprinklers, fire fighting X25-X05

Sputtering
applying magnetic films to substrate V02-H02B
appts. - see Processing tube V05-F05C V05-F08D1A
cathodic X25-A04
deposition appts., semiconductor mfr. U11-C09A
deposition, conductive layer, semiconductor mfr. U11-C05C2
magnetic films in record carrier mfr. T03-A02A3A
magnetron sputtering V05-F05C3A V05-F08D1A

Squelch, for radio receiver W02-G03B1

SQUID U14-F02B
DC S01-E01A1
for measuring magnetic variables S01-E01A
RF S01-E01A3

SQWFET - see Field effect transistor, with heterostructure, single quantum well U12-D02D2

SRAM - see RAM, static

Stability control, electric power system X12-H01A5

Stacked capacitor - see Capacitor V01-B03C3A

Stacked capacitor DRAM - see RAMs, dynamic, with stacked capacitor U14-A03B4

Stacking, faults measurement for semiconductor U11-F01A2

Stacks of objects, counting T05-A02

Stage lighting X26-K

Stairs Q45-E

Stamp mill P41-A03L

Stamping
compact disks T03-B01D1 T03-B01E3G
engraving systems X25-X10
punching / stamping X25-A02D

Stamping, stamps P75-B
hand held P75-B01
ink P75-B03
machines P75-B02

Standard cells, integrated circuit U13-C04D

Standard conversion circuit (video)
general W04-N05A
recording equipment W04-F01H3
TV receiver W03-A11A

Standby power supply
battery back up U24-J01
capacitor back up U24-J02
combined battery / capacitor U24-J04
computer T01-L01 U24-J
diesel-generator X12-H02A
high power X12-H02
low power U24-J
power converter back up U24-J03
rotary, motor-generator X12-H02C
static converter-type U24-J X12-H02B
telephony U24-J W01-C07B

Stands, for recording equipment T03-L05A

Stapling paper in copier S06-K05A

Stapling, industrial X25-X

Star
data networks W01-A06B3
Star coupler, optical V07-G11
Starter, star-delta X13-H01A
Starting electric machine V06-N05
X13-H01A
State machine U21-C03B4
Static balancing S02-J05
Static converter - see Converter
Static electricity prevention X25-S
clean room U11-C15B1
computer X25-S01
for magnetic record carrier X25-S
in clean room U11-C15B
X25-S01
semiconductor wafer charging prevention during mfr. U11-C10
Static exercise bicycle P36-A06
W04-X01A5A
Static induction thyristor - see Thyristor, static induction U12-D01B5
Static induction transistor - see Field effect transistor U12-D02C
Static memory
magnetic T01-H01B3B
optical T01-H01B3C
Static UPS U24-J
X12-H02B
Static VAR compensation X12-H01A2D
Stationery, personal - see Personal article
X27-A02C
statistical analysis by computer T01-J03
Statistical metering
data networks W01-A06A3
telephone exchanges W01-C02A1A
Stator V06-M07A
Steam generation Q72
casing, boiler - Q72-T05
chimney Q72-T11
compressor Q72-T07
drum Q72-T01
firebox Q72-T02
fire tubes Q72-T04
flues Q72-T04
fluid circulation Q72-T07
frame, boiler - Q72-T05
header Q72-T01
heat exchanger Q72-T09
heating method Q72-A
insulation Q72-T10
maintenance Q72-G
nozzle Q72-T07
pump Q72-T07
repair Q72-G
support, boiler - Q72-T05
types of boilers Q72-B
fire-tube boilers Q72-B01
fluidized bed combustion boilers Q72-B04
pulverized fuel boilers Q72-B06
stoker fired boilers Q72-B05
superheated steam boilers Q72-B08
waste heat boilers Q72-B07
water-tube boilers Q72-B02
valve Q72-T07
ventilating shaft Q72-T07
water tubes Q72-T04
Steam (applications)
bath, medical S05-A09
boiler X25-W02
cleaning P43-B01C
Q72-U41
iron X27-D03
power generation/plant Q72-U16
turbine, ship Q24-E02C1
Q52-A01S
vehicle Q72-U03
Q51-C01
Steam turbine power plant X11-A
bearings X11-A01C
blades X11-A01A1
carbon capture arrangement X11-A08
carbon footprint reduction X11-A08
casings X11-A01C
control X11-A10
conveyors, coal X11-A09
cooling X11-A01C
electric power generation, application X11-U01
environmental protection X11-A08
filters, chimney-smoke X11-A09
flue gas desulphurisation X11-A08
for ship Q24-E02C1
control W06-C01A1
generators, steam X11-A09
layout X11-A09
manufacture X11-A01X
materials X11-A01A2
monitoring X11-A10
mountings X11-A01C
protection, overspeed X11-A10B
regulation by flow control X11-A10A
rotors X11-A01A
seals X11-A01B
shutting down X11-A10B
starting X11-A10B
stators X11-A01B
steam turbine generator, application X11-U01A
testing X11-A10
turbines X11-A01
turbogenerator, application X11-U01A
valve control X11-A10A
waste gas scrubbing X11-A08
Steam turbine testing Q52
S02-J01E
X11-A01X
Steel - see metallurgy
Steering – see also Vehicle steering
electric vehicle, power steering X21-A09
motor vehicle, automatic steering Q18-B07
X22-C05B
motor vehicle, four-wheel steering Q18-B09
X22-C05A1
motor vehicle, power steering Q18-B06
X22-C05A
testing, for vehicle S02-J02A
vehicle, mechanical Q18-B

vehicle, steer-by-wire X22-C05A3
Steganography (data concealment) W01-A05L5
Stepping motor
hybrid V06-M05C
permanent magnet V06-M05B
variable reluctance V06-M05A
Stereophonic
analog radio systems - see Stereophonic (analog) broadcast systems W02-E
broadcast radio receiver demodulator W03-B02C3
general demodulator U23-P05
digital radio systems W02-D02 W02-D05C
sound systems W04-R01C
TV receiver demodulator W03-A03C1 W03-A12B1
TV systems - see Television system W02-F06B
Stereophonic (analog) broadcast system
ARI W02-E01B5
radio W02-E
RBDS/RDS W02-E01B
TV sound W02-F06B
TV sound, SAP W02-F06B5
Stereophonic decoder
radio receiver W03-B02C3
radio receiver, novel decoder W03-B02C3C
TV receiver W03-A03C1 W03-A12B1
Stereophonic digital radio broadcasting W02-D02 W02-D05C
Stereophonic TV receiver W03-A12B
audio aspects W03-A12B5
decoder W03-A12B1
Stereoscopic computer display T04-H06
Stereoscopic image creation W04-N05C9
Stereoscopic television system
broadcast W02-F03B1
industrial W02-F03B3
medical S05-D W02-F03B9
Stereoscopic TV receiver
autostereoscopic W03-A12A
filter-based spectacles W03-A08E7C W03-A12A
shutter-based spectacles W03-A08E7E W03-A12A
Stereoscopic video camera W04-M01L
Sterilisation, domestic X27-D10
mixed mode cleaning/sterilising X27-D07
by use of transducers V06-V04T
Sterilisation, industrial
ultrasonic sterilisation X25-H09A
by use of transducers V06-V04T
Sterilisation, medical S05-G01
by heat, radiation, electricity S05-G01B
by mechanical cleaning S05-G01A
by use of chemicals S05-G01A
by use of transducers V06-V04T
equipment maintenance P34-G
mechanical aspects P34-A
Stethoscope
acoustic S03-E08G
medical S05-D01H
Still-picture
electronic / digital camera W04-M01B1
processing, in facsimile or analogous system S06-K99D
recording on video recording equipment W04-E20C5
Still-picture display for TV receiver W03-A13C
Stimulable phosphor
medical imaging use S05-D02A5C S06-K99X
radiation image storage screen V05-M01C1
sheet for imaging S03-E06B3 S03-E06H5C
Stirling engine X25-X08
STM - see Scanning Tunnelling Microscope
Stock management X25-F09
Stone crusher P41-A01 P41-V22
Stopwatch S04-C03
Storage area network T01-N02A2D
Storage array T01-H01B7
Storage container, electronic component (general) V04-X01A
Storage devices - see Digital static stores U14-A
Storage heater, electric X27-E01A4
control X27-E01A4
Storage management
(control programs) T01-F05E
(industrial stock control) X25-F09
Storage rack, record carriers T03-L01A
Storage systems T01-J10C2
automated warehousing X25-F07
by type T01-H03
DASD interface T01-C01A
disk T01-H01B1
dynamic T01-H01B1
holograms T01-H01B2
optical T01-H01B2
RAID T01-H01B1A
static T01-H01B3
vehicle mounted Q14-F
Storage tank X25-X
image filing T01-J05B2A
Storage, information retrieval, data processing T01-J05B
Data and directory structure T01-J05B2B
image archiving T01-J05B2A
Storage, semiconductor wafer U11-F02A1
Store and forward exchange
data network W01-A06G2
facsimile S06-K07C2B
Stored program control telephone exchange W01-B02A1
Stores (see also ROMs, RAMs)
associative T01-H03B U14-A05

cache T01-H03A
interleaved T01-H03C
semi-permanent U14-A06
Strain gauges S02-A10F
for pressure measurement S02-F04B1
using electrical/magnetic method S02-A02
S02-A10F
using optical method S02-A03
S02-A10F
to measure deformation S02-A10F
to measure force S02-F01C
Strained layer prodn., semiconductor devices U11-C03J7
Stranded conductors X12-D02X
Streak tube V05-D03E
Streaming current detector S03-E03C
Streaming content
audio T01-N01D1A
W02-C06
W02-K03
video T01-N01D1B
W02-F07M
W02-K03
Stress measuring, mechanical (see also Force measurement) S02-F01
String musical instruments P86-A03
played by plucking strings P86-A03E
played using a bow P86-A03C
Strip handling X25-F02
control T06-D08A
X25-F02
Strobe lamp control X26-C01A
Stroke generator for VDU CRT display T04-H01A1
Stroke width pattern recognition T04-D01
Strongbox, for valuables T05-L05A
Stud arc welding X24-B05
Studio lighting, photography S06-B09
Stylus, recording
capacitive T03-C01
gramophone V06-V04A3
W04-A02
Sub-critical reactor X14-A09
Submerged-arc welding X24-B05
Subscriber equipment, telephone - see Telephone subscriber equipment W01-C01
Subscriber services (telephone) W01-C02B
alarm call systems W01-C02B8
alarm monitoring W01-C02B7B
W01-C05A
W05-B05G
automated directory enquiries W01-C02B7E
automatic call distribution centre W01-C02G3A
call answering (centralised) W01-C02B4
call barring W01-C02B2G
call diversion W01-C02B2E
call forwarding W01-C02B2L
call holding W01-C02B4A
call transfer W01-C02B2M
caller ID transmission W01-C02B3C
caller ID withholding W01-C02B3E
camp-on and call back W01-C02B3A
centralised answering W01-C02B4
centralised autodial W01-C02B5
checking entitlement and ID W01-C02B6A
conference call systems W01-C02B1
denying access to services W01-C02B6C
devices external to exchange W01-C02B7
graded service W01-C02B6
multimedia messaging service W01-C02B7F
music on hold W01-C02B4A
paging W01-C02B7A
Presence-Enhanced Contacts W01-C02B2N
reply dialling W01-C02B5A
short messaging service W01-C02B7D
successive ringing of extensions W01-C02B2C
time-dependent call handling W01-C02B2J
voice mail W01-C02B7C
Subscription television W02-F05A3
access control W02-F10N3
archival storage of content primarily submitted by user W02-F10F
ancilliary receiver equipment W03-A16C
billing arrangements W02-F10N5
billing according to user-determined level of commercial message provision W02-F10N5A
pay-per-view/billing W02-F10A
W02-F10N5
secrecy W02-F05A1
security W02-F10N
servers W02-F10K
storage systems W02-F10K
two-way working W02-F10
video-on-demand W02-F10A1
video/audio descrambling system W02-F05A1B
video/audio scrambling system W02-F05A1A
W02-F10N1
Substation for electric train/tram X13-E03
X23-A03
Substrate
capacitive record carrier T03-C01
high grade ceramics, for IC packages U11-D01A
U14-H03F
magnetic record carrier T03-A01B1A
magneto-optical record carrier T03-D01A2
manufacture, for hybrid circuits U14-H04B
multilayer ceramic U14-H03F1
multilayer ceramic, manufacture U14-H04F1
multilayer ceramic, materials/structures U14-H03F1
multilayer ceramic, with passive components U14-H03B2
multilayer, for IC packages U14-H03F
optical record carrier T03-B01A
semiconductor device packaging U11-D01A
Substrate processing, isolation of IC components U11-C08
Substrate, semiconductor
doping U11-C02
U11-C02J
inorganic insulating layer U11-C05B
inorganic insulating layer, non-silicon semiconductor substrate U11-C05B8
large surface area deposition U11-C01C
layer deposition U11-C01
layer formation U11-C05

organic insulating layer formation U11-C05A
processing U11-C
structures for layer deposition U11-C01J8
thick/thin film material U11-A05B

Successive approximation A-D converter U21-A03B1

Successive ringing of telephone extensions W01-C02B2C

Suggester system, interactive broadcasting
head-end/server W02-F10Q3
receiver/subscriber W03-A18A5C

Sulphur lamp X26-A01B

Sunbed/lamp S05-A03A
X26
X27-A02A2
medical use S05-A03A

Sundial S04-A09

Super-resolution optics for recording head
magneto-optical recording T03-D01C1E
optical recording T03-B02B6

Super-resolution record carrier T03-B01D4

Supercomputer T01-M06C

Superconducting
antenna W02-B08Q5
coil – see – Superconducting coil X12-C05
connector, high power X12-D06
X12-G02X
connector, low power V04-A10
X12-D06
data processing T01-E05C
magnet – see – Superconducting magnet
X12-C05A
magnetic record carrier T03-A01E
magnetic recording T03-A06K

Superconducting circuits U14-F02C
for analogue-digital converter U14-F02C
for digital-analogue converter U14-F02C
logic U14-F02C
U21-C01F

Superconducting coil X12-C05
cooling X12-C02A3
cooling, cryostat X12-C02A3A
energy storage X12-C05
X12-H06
X16-L
manufacture X12-C01D4
short circuit current limiter X12-C05
X13-C03B1

Superconducting devices U14-F02B
cooling for U11-D02C
U14-F02B
electrode formation U11-C05F6
U14-F02B
manufacture U11-C18B9
U14-F02B
Superconductive FET U12-D02A9
using metal alloys U14-F02B
U14-F02H

Superconducting electric machine X11-H05

Superconducting magnet
cooling X12-C02A3
cooling, cryostat X12-C02A3A
high power X12-C05A
low power V02-E02X1
magnetic levitation, train X23-A01A4
manufacture X12-C01D4

Superconducting material U14-F01
X12-D06B
electric screening V04-U01A
X12-D06B
electromagnetic screening V04-U01A
X12-D06B
magnetic screening V04-U01A
X12-D06B
metal alloy U14-F01A5
X12-D06B1
metal alloy, manufacture U14-F01A1
X12-D06B1A
nitrides U14-F01B
X12-D06B2
organic U14-F01B7
oxide material U14-F01B5
X12-D06B2
oxide material, manufacture U14-F01B1
X12-D06B2A

Superconducting quantum interferometer U14-F02B

Superconducting thick film U14-F02A
U14-H02

Superconducting thin film U14-F02A
deposition, CVD U11-C01B
U14-F02A
deposition, sputter U14-F02A

Superconducting transmission line X12-D06A
manufacture X12-D06A1
material X12-D06B

Superconducting waveguide components W02-A08J

Superconductor computer T01-M06E

Superlattice, semiconductor
layer deposition U11-C01J6
structure U12-E01B2

Supermarket trolley coin lock T05-H05A1

Supply line noise suppression W02-H03

Support
for fixed aerial W02-B07A
measurement appts S01-J09

Suppression of interference at source W02-H01

Suppression of noise in radio receivers W02-G03B

Surface acoustic wave device U14-G
electrode formation U11-C05F6
U14-G
manufacture U11-C18B9
U14-G
oscillator using U23-A01A1
resonators (see Resonator, electromechanical) V06-V01E1
actuators V06-M06D

Surface area of porous materials S03-F06B

Surface conduction cathode - see cold cathode

Surface flatness measurements for semiconductor wafer U11-F01A3

Surface mounting
capacitors V01-B03C5
resistors V01-A02D
semiconductor package U11-D01A3
Surface tension measurement S03-F04
Surge arrester
gas discharge tube V05-A05
X13-C03A
metal oxide X13-C03A2
SF6 X13-C03A3
silicon carbide X13-C03A1
spark gap X12-F01A
X13-C03A
superconducting X13-C03B1
telephone line W01-C08A
varistor X12-A
X13-C03A
Surge protection X13-C03
Surgery S05-B
cleaning and maintenance of surgical apparatus P31-G
cryosurgery S05-B06
IR, UV, laser S05-B01
keyhole S05-B05
location of instruments S05-B04A
monitoring patient S05-B04
robotics and automated control of surgical instruments S05-B07
simulation and education systems S05-P
sonic S05-B02
storage , for surgical apparatus P31-B
ultrasonic S05-B02
using mechanical or electrical equipment P31-A
S05-B03
Surround sound system
general W04-R01C5
TV system aspects W02-F06B3
TV receiver aspects W03-A12B3
Superscalar computer T01-M02C3
Surveying S02-B
instrument combinations S02-B11
open-water S02-B04
photographic S02-B04
Surveying equipment
calibration S02-B10
sonar W06-A05H3
testing S02-B10
Susceptibility measurement S01-E02X
testing, for vehicle S02-J02A
SVC X12-H01A2D
TCR X12-H01A2D
TSC X12-H01A2D
thyristor-controlled reactor X12-H01A2D
thyristor-switched capacitor X12-H01A2D
Swimming (sport and leisure) P36-A03
W04-X01K3J
Swimming pool X25-X06
water treatment X25-H03
swimming pool alarm W05-B07J1
Swirl flowmeters S02-C01A9
S02-G02X
Switch
alarm, general switch W05-B10A
contactless - see Proximity switch U21-B02C
contacts type - see Switch with contacts V03-C
X13-A
fire alarm W05-B02D
gas discharge tube V05-A03
X13-A04H
proximity (electronic) - see Proximity switch U21-B02C
optical W02-C04A6
telephone cradle (mechanical) W01-C01A
telephone keyboard switching element W01-C01B8E
vehicle application X22-N
waveguide (RF) W02-A04A
Switch with contacts
acceleration V03-C06C
bimetallic V03-C06B1
centrifugal V03-C06C
chain V03-C03
contact thermometer V03-C06B9
V03-C09
contactor X13-A04G
contactor, air gap X13-A04G5A
contactor, electromagnetic X13-A04G1
contactor, gas-insulated X13-A04G5B
contactor, vacuum X13-A04G5C
cooling V03-B06
cord V03-C03
direction V03-C06C
door switches V03-B01D
door sensing edge V03-B01C
electric field V03-C06A
explosion switch V03-C09
explosively-actuated X13-A04X
float V03-C06X
floor mat V03-B01D
flow V03-C06D
foot pedal V03-B01B
fuse-switch X13-B01
gas-filled tubes X13-A04H
humidity V03-C06X
inclination V03-C06C
inertia V03-C06C
joystick V03-C03A
keyboard V03-C01A2
knife switch V03-C02B
knob V03-C02A
X13-A04C1
level V03-C06X
lever V03-C02B
X13-A04C2
limit V03-B01A
liquid contact V03-C09
lockable V03-C05
X13-A04D
magnetic field V03-C06A
manufacture V03-C07
mat switches V03-B01D
membrane, single V03-C01A1A
membrane, multiple V03-C01A2A
MEMS switch V03-C10
mercury contact thermometer V03-C06B9
V03-C09
microswitch V03-C10
micromachining for mfr. V03-C07A

nanoswitch V03-C10A
NEMS switch V03-C10A
orientation V03-C06C
position V03-C06C
pressure V03-C06D
programme V03-C08
pull switch V03-C03
pushbutton V03-C01A
X13-A04B2
pushbutton, multiple V03-C01A2
pushbutton, single V03-C01A1
reed switch V03-C06A
rocker V03-C04
rotary V03-C02
X13-A04C
seat switches V03-B01E
selector V03-E
shape memory alloy V03-C06B1
shock switch V03-C06C
slide V03-C01B
X13-A04B1
snap-action V03-B03A
X13-A04A
speed V03-C06C
switch-fuse X13-B01
testing S01-G10
V03-C07
thermal, fluid expansion/contraction V03-C06B9
thermal, solid expansion/contraction/deflection V03-C06B1
thermostat, liquid expansion V03-C06B9
thermostat, solid expansion/deflection V03-C06B1
thyratrons X13-A04H
tilt V03-C06C
time V03-C08
time-delay V03-B03
X13-A04A
toggle V03-C02B
X13-A04C2
tumbler V03-C04
X13-A04D
turn-knob V03-C02A
vacuum tubes X13-A04H
vibration V03-C06C

Switch with contacts, applications

alarms V03-U15
audio equipment V03-U09
avionics V03-U03B
X13-U03
W06-C01C1
broadcasting V03-U05
cameras V03-U12
control V03-U16
domestic V03-U01
doors V03-U18
games V03-U08
V03-U17
industrial V03-U07
X13-U06
information equipment V03-U04
instrumentation V03-U13
land vehicles V03-U03A
X13-U01
X22-N
lighting V03-U11
machine tools V03-U06
medical V03-U10
military V03-U03D
X13-U05
monitoring V03-U16
personal V03-U02
railways X13-U02
V03-U03E
refrigeration V03-U17
robotics V03-U14
shipping V03-U03C
X13-U04
signalling V03-U15
sports V03-U08
telecommunication V03-U05
toys V03-U08
vehicles V03-U03
X22-N
video equipment V03-U09
windows V03-U18

Switch with contacts, details

actuators V03-B02
X13-A03B
antistatic arrangements V03-B04
arc control V03-B06B
X13-A03C
casings V03-B04A
X13-A03X
contacts - see Contacts V03-A
X13-A
cooling V03-B06
dampers, vibration V03-B09
drives V03-B02
X13-A03B
earthing V03-B04
fuses, for switches V03-B04
housings V03-B04A
X13-A03X
illumination V03-B05
indicators V03-B05
interlocking V03-B06A
knobs V03-B09
latching V03-B06A
X13-A03C
levers V03-B09
locking V03-B06A
X13-A03C
lubrication V03-B09
manufacture V03-C07
X13-A04F
micromachining for mfr. V03-C07A
markings V03-B05
mechanisms V03-B02
X13-A03B
modular construction V03-B10
monitoring V03-C07
X13-A04F
operating parts V03-B09
X13-A03A
pushbuttons V03-B09
safety arrangements V03-B04
seals V03-B04A
snap-action arrangements V03-B03A
X13-A04A
symbols V03-B05
testing V03-C07
X13-A04F

time-delay arrangements V03-B03 X13-A04A
vibration damper V03-B09
Switch-mode power supply U24-E02B2A
Switched capacitor circuit
amplifier U24-G02B U24-G04C1
filter U25-A01
network U25-A01
Switched reluctance motor V06-M03 X11-H01
Switched resistance network V01-A03C9
Switchgear
assembly X13-E08
bus-bars X13-E04A
cabinets X13-E02
casings X13-E02
circuits X13-E04A
cooling X13-E09
CT arrangements X13-E04
cubicle type X13-E03B
earth-pins X13-E04
earth-plates X13-E04
earthing X13-E04
frameworks X13-E01
fuse arrangements X13-E04
guards X13-E04
interlocks X13-E04
maintenance X13-E08
manufacture X13-E08
microprocessors X13-E08B
mimic diagrams X13-E01
monitoring X13-E08
mosaic diagrams X13-E01
nameplates X13-E02
optical fibre sensors X13-E08A
panels X13-E01
pole mounted units X13-E03
PT arrangements X13-E04
repair X13-E08
safety arrangements X13-E04
SF6 based X13-E03C
shutters X13-E04
substations, transformers X13-E03
supervisory desks X13-E01
switchboards X13-E01
switchyards X13-E03
testing S01-G10 X13-E08
transformer substations X13-E03
venting arc gases X13-E09
wiring X13-E04A
Switching
data transmission, store and forward W01-A06G2
electronic - see **Electronic switching** U21-B
Switching amplifier U24-G02E
Switching regulator U24-E02B2A
Synchrodyne receiver
broadcast W03-B01A6
communications receiver W02-G03A8
TV W03-A01B6
Synchronisation
clock synchronisation in computer T01-K
clock synchronisation (general) U22-H
extraction from spectrum W01-A04B2
facsimile scanning system S06-D04A
general data transmission W01-A04
general data transmission, with special signals W01-A04A
general data transmission, without special signals W01-A04B
general digital synchronisation U22-H
integrated circuit U13-E04
jitter detection W01-A01C
of processing task, computing T01-F02C1
phase/frequency U21-D
processing task, computing T01-F02C1
television receiver W03-A06
time division multiplex W02-K02A
Synchronising generator with network X12-H01B2A
Synchronising, TV receiver
detecting presence of signals W03-A06A1
extracting synchronising information W03-A06A
recognising type of signals W03-A06A5
separation of vertical / horizontal information W03-A06C
synchronising signal distribution W03-A06E
Synchronism-loss protection X13-C01X
Synchronous machine (see also Electric machine)
brushless exciter X11-D03A
clock or watch application S04-B06
cylindrical rotor X11-D02
hybrid V06-M01C X11-D05
interior permanent magnet V06-M01A1 X11-G01
linear machine X11-H02B
non-linear machine X11-D
rectifier U24-D04G
rotary exciter X11-D03
salient-pole rotor X11-D01
static exciter X11-D04
with permanent magnet V06-M01A X11-G
without permanent magnet V06-M01B X11-D
Synchros V06-M06A
Synchrotron V05-E03A X14-G02
generator V05-E03A
Synchrotron orbital radiation X14-G02
Synthesiser systems for musical instruments W04-U03C
Synthesiser, frequency - see Frequency synthesis
Synthetic aperture radar W06-A04J
Synthetic aperture sonar W06-A05J
Syringe, medical P34-A02 S05-J

T

TAB - see Tape automated bonding

Table P25-A

Table lamp X26-E02

Table linen P27-B03

Table of contents recording indexing
- audio/video W04-H01C
- general T03-J01C
- user-recordable (UTOC) T03-J01C1
- user-recordable (UTOC), audio video W04-H01C1

Table, medical S05-D02E
- X-ray S05-D02A6

Table tennis P36-A01 W04-X01K1T

Tableware P27-B03

Tachogenerator V06-M06C

Tachograph T05-G01
- vehicle X22-E05

Tachometer S02-B12A
- vehicle X22-E05

Tagging
- packages X25-F03A3C
- RFID T04-K03B W06-A04B5
- RF details W02-G05

Tandem solar cells U12-A02A4C X15-A02B

Tape
- measure S02-A01A
- paper, punch or reader T04-A01

Tape automated bonding U11-E01B
- carrier tapes U11-D03A1B
- TAB packages, for semiconductor devices U11-D01A1 U11-D01A3

Tape carrier
- capacitor V01-B04E
- electrolytic capacitor V01-B01G
- resistor V01-A04J
- semiconductor device U11-D03A1

Tape cassette
- adaptor for different-size cassette T03-H01B6
- cassette per se T03-H01B
- construction (of cassette per se) T03-H01B3
- container T03-L01A3
- library systems T03-Q01
- loading with tape during mfr. T03-H01B8A
- magnetic T03-H01B
- magneto-optical T03-H01B
- manufacture (of cassette per se) T03-H01B8
- optical T03-H01B
- protective tape cover T03-H01B5
- storage rack T03-L01C3
- tape travel indicator T03-H01B9 T03-J05A

Tape drive for computer data storage T03-A08E

Tape library storage systems T03-Q01

Tape operating mode control general T03-E05

Tape recorder
- audio - see Audio tape recorder W04-B12
- computer storage tape drive T03-A08E
- digital audio (DAT) W04-B12G
- digital video W04-B10G
- video - see Video tape recorder W04-B10

Tape travel
- measuring T03-J05

Taper measurement S02-A10D1
- using optical measurements S02-A03 S02-A10D1

Target position determination by radar W06-A04A1

Target-seeking missile system W07-A01C

Tariff metering appts S02-K08B

TASI W02-K06

Task interaction T01-F02C

Task transfer T01-F02A1

Taxi meter T05-G01 X22-E05 X22-P05

TCR static VAR compensator X12-H01A2D

TDD W02-K02C

TDM - see Time division multiplex W02-K02

TDM data transmission W01-A03C

TDMA data transmission (general) W01-A03C1

TDMA data network access W01-A06F1G

TDMA satellite communication W02-C03B1D W02-K02D

Tea maker X27-B01

Teaching P85-A W04-W
- arithmetic P85-A01E
- biology P85-A01G
- chemistry P85-A01G
- game playing P85-A01P
- languages P85-A01L
- mathematics P85-A01E
- music P85-A01J
- physics P85-A01G
- physical education (PE) P85-A01N
- reading or writing P85-A01C
- science P85-A01G
- spatial awareness P85-A01A
- sport P85-A01N

Teaching using P85-A
- models for demonstration P85-A05 W04-W07C
- question and answer apparatus and systems P85-A07 W04-W01
- simulations P85-A01P W04-W07A

Teddy bear (toy) P36-E05 W04-X03E5

TEGFET - see Field effect transistor, with heterostructure U12-D02D2

Telecine S06-B05 W04-M02

Telecommunications
bandwidth reduction (general) W02-G04A
CDMA W02-K05A7
cellular radio W02-C03C1
communications receiver W02-G03
connector - see Connector V04-M30G
data network W01-A06
data transmission W01-A
direct-sequence SS W02-K05A7
EMC testing S01-G08C
equipment construction (general) W02-G06
frequency division multiplex W02-K02
frequency hopping spread spectrum W02-K05A6
frequency synthesizer, direct (DDS) U23-F01
frequency synthesizer, indirect (PLL) U23-D01B
hybrid FDM-TDM W02-K07A
hybrid spread spectrum W02-K05A8
inductive loop system W02-C02B
ISDN W01-C05B7
land mobile W02-C03C
leaky cable system W02-C02A
LINCOMPEX W02-G04B1
line system W02-C01
local area network W01-A06B5A
meteor scatter system W02-C03X
mobile radio W02-C03C
mutichannel access mobile radio W02-C03C3
near-field system W02-C02
noise measurement S01-D08B
noise suppression (at source) W02-H
optical system W02-C04
orthogonal frequency division multiplexing W02-K07C
orthogonal multiplexing W02-K07E
PAPR (peak to average power ratio control) W02-G04B1
point-to-point radio system W02-C03D
radiating cable system W02-C02A
radio diversity W02-C03A
radio receiver W02-G03
radio relay system W02-C03B
radio repeater W02-G05C
radio system W02-C03
radio transceiver W02-G02
radio transmitter W02-G01
RFI suppression W02-H01
S/N ratio measurement S01-D08B
satellite radio system W02-C03B1
SDMA W02-K09
spread spectrum system W02-K05
SSB W02-G04C
standby system (general) W02-G08
telephone - see **Telephone**, et seq W01-C
time-hopping systems W02-K05A9
tropospheric scatter system W02-C03X
trunked radio W02-C03C3G
ultrasonic system W02-C07A
ultrawideband (UWB) W02-K05A9
wide area network W01-A06B5B

Telecontrol – see Remote control W05-D08C

Telecontrol/telemetry, applications
building control W05-D07C
earth drilling and well logging W05-D07H
factory automation W05-D07B
home automation W05-D07A
home bus system W01-A06B1 W01-A06B5A W05-D07A
office automation W05-D07E
power generation and distribution W05-D07F
utility meter W05-D07G
vehicles W05-D07D

Telefax - see Facsimile S06-K99D

Telegraphs, order W05-A04C

Telemetry W05-D08E
address allocation for sensors W05-D02J
analogue W05-D08A
data network-based W05-D06F W01-A06
earth drilling and well logging W05-D07H
error correction W05-D05
hydraulic signal transmission W05-D06M
mechanical signal transmission W05-D06M
mud pulse W05-D06M1
multiplex W05-D02
optical signal fibre transmission W05-D06C
optical signal free-space transmission W05-D06A3
pneumatic signal transmission W05-D06M
radio signal transmission W05-D06A1A
radio telephone transmission W05-D06G5
remote electric meter reading S01-B01 W05-D07G
remote meter reading (general) S02-K08A W05-D07G
remote utility load measurement X12-H04A W05-D07F
selection aspects W05-D02
sensor address allocation W05-D02J
signal format W05-D08J
security aspects W05-D05B
telephone line signal transmission W01-C05B3F W05-D06G1
transmission medium W05-D06
transponder-based W05-D08G
ultrasonic signal transmission W05-D06A5

Telephone
acoustic coupler W01-C05B3A
alarms, centralised signalling W01-C05A W05-B05G
anti-eavesdropping arrangements W01-C08F1C
application of telephone systems and apparatus W01-C08H
cable fittings W01-D02
cable installations W01-D03
call handling (subscriber equipment) W01-C01F8
cellular system W01-B05A1A W02-C03C1A
centralised answering W01-C02B4
concentrator W01-B03A
connecting via radio or inductive links W01-B05
current supplies W01-C07B
direct mode radiotelephone system W01-B05A1D
direct selection W01-B01
distribution frame W01-B20
echo cancelling W01-C08E
equaliser W01-C08E
exchange - see **Telephone exchange** W01-C02
facsimile, linked with S06-K07C8

fourth generation telephone system W01-B05A1A
W02-C03C1A
W02-C03C1H
general equipment/circuits W01-C08
indirect selection W01-B02
inductive link systems W01-B05B
instant messaging W01-C01G6F
interconnection between switching centres W01-C03
interconnection without centralised switching W01-C04
ISDN aspects (see also **ISDN**) W01-C05B7
key telephone system W01-C02G5C
keyboard (subscriber equipment) W01-C01B8
line fittings W01-D02
line hybrid W01-C08B
line installation W01-D
line loading coil W01-C08X
W02-C01B
maintenance centre system W01-C08C5
metering W01-C06
mobile radio telephone system W01-B05A1
W02-C03C
Multimedia Message Service W01-C02B7F
multiplex selection W01-B07
music-on-hold W01-C02B4A
W01-C05B5A
network broadcasting W01-B05A1M
optical link systems (free space) W01-B05C
optical telephone systems (general) W01-C08G2
party line selection W01-B04
party line systems W01-C04
portable test equipment W01-C08C1
power supply (general) W01-C07B
promotional MF dialling module W01-C01B1D
protection against lightning strike W01-C08A
public - see Public telephone
push to talk over packet network W01-C01G6H
remotely-operated auxiliary test device W01-C08C3
repeater amplifier W01-C08X
W02-C01E5
ringer volume setting (subscriber equipment) W01-C01F1B
ringing (exchange equipment) W01-C02D
W01-C07B
ringing (subscriber equipment) W01-C01F
satellite telephone system W01-B05A1E
selecting W01-B
signalling (general) W01-B09
signalling for ISDN (see also **ISDN**) W01-C05B7C
SLIC W01-C02D1
subscriber equipment - see **Telephone subscriber equipment** W01-C01
subscriber line interface circuit W01-C02D1
telecontrol signal transmission W01-C05B3E
W05-D06G
W05-D08C
telemetry signal transmission W01-C05B3F
W05-D06G
W05-D08E
telephone line type W01-C08G
test equipment, general W01-C08C
third generation telephone system W01-B05A1A
W02-C03C1A
W02-C03C1G
toll-free calling W01-C06G3
vehicle telephone X22-K11
W01-C01D3B
virtual private network W01-C03A
voice-over-IP telephone system W01-C05B4C
wired telephone system (general) W01-C08G1
wiretap prevention W01-C08F1C

Telephone exchange
ACD console W01-C02C1
attendant desk W01-C02C
automatic call distribution centre W01-C02G3A
automatic exchanges W01-C02
call answering (centralized) W01-C02B4
call centre W01-C02G3B
call centre console W01-C02C1
call holding W01-C02B4A
call forwarding W01-C02B2L
call transfer W01-C02B2M
caller identification W01-B03C
central office type exchange W01-C02G1
centralized call answering W01-C02B4
centralized storage of user profile W01-C02B7G
centrex type W01-C02G
characterised by exchange type W01-C02G
clock signal distribution W01-B02X
common control logic W01-B02A
concentrator W01-B03A
consoles W01-C02C
control of exchange W01-C02A7
distributed control systems W01-B02X
distribution W01-B03A
exchange interface with external network W01-C02D
intelligent network W01-C02A7A
interactive voice response (IVR) W01-C02B9
ISDN exchange (see also ISDN) W01-C05B7B
least cost routing (LCR) W01-C02A7
location-based service W01-C02B7L
metering of calls – see **Telephone metering** W01-C06
monitoring W01-C02A
music on hold W01-C02B4A
W01-C05B5A
Multimedia messaging service W01-C02B7F
novel switching element W01-B02
PABX W01-C02G5A
PBX W01-C02G5B
private exchange W01-C02G5
personalized ringtone transfer W01-C02B7H
reception of ringing signal W01-C02D5
reply dialling W01-C02B5A
satellite exchanges, connection to W01-B03
Short messaging service W01-C02B7D
SLIC W01-C02D1
space switching W01-B02
stored program control (SPC) W01-B02A1
subexchanges, connection to W01-B03A
subscriber line interface circuit W01-C02D1
subscriber line testing W01-C02A5
testing switch aspects of exchange W01-B08
time switching W01-B07
transmission of ringing signal W01-C02D3
user profile, centralized storage W01-C02B7G

Telephone metering, exchange-based
(W01-C02A7 also assigned)
billing W01-C06E
least cost routing W01-C06A
prepaid telephone services W01-C06H

reduced rate charging W01-C06G1
reverse charging W01-C06G5
time control and indication W01-C06C
toll free calling W01-C06G3

Telephone metering, subscriber-based W01-C01J

Telephone subscriber equipment W01-C01
accessory ringer W01-C01F1E
acoustic coupler W01-C05B3A
acoustic feedback reduction W01-C01C3E
ADSL interface W01-C01L3
ambient noise level reduction W01-C01C3C
answering machine W01-C01C5
answering machine with dynamic recording W01-C01C5A
answering machine with static recording W01-C01C5B
anti-sidetone arrangements W01-C01C3
audio DSP, non-speech W01-C01Q6C
audio DSP, speech W01-C01C7
audio transducer W01-C01M
autodialler W01-C01B1
automatic answering W01-C01C5
battery saving W01-C01E5B W01-C01Q7
Bluetooth® interface W01-A07H2A W01-C01R
biometric ID-based security W01-C01Q8C S05-D01C5A
built-in alarm clock S04-B05 W01-C01P9
built-in audio player/recorder W01-C01P6A W04-G01B8
built-in broadcast radio receiver W01-C01P6E W03-B
built-in broadcast TV receiver W01-C01P6G W03-A
built-in digital camera W01-C01P6C W04-M01B1
built-in electronic ticket W01-C01P9
built-in entertainment device W01-C01P6
built-in flashlight W01-C01P9 X26-E01
built-in game player W01-C01P6L W04-X02
built-in medical monitor W01-C01P8 S05-D01
built-in navigational receiver W01-C01P7 W06-A
built-in PDA T01-M06A1A W01-C01P2
built-in video recorder W01-C01P6J W04-P01C8
call handling W01-C01F8
call handling, based on Caller ID W01-C01F8A
call handling, based on profile, e.g. Presence-Enhanced Contacts profile W01-C01F8C
call screening W01-C01F5
calling subscriber number display W01-C01F3
car telephone W01-C01D3B
casing W01-C01A3
cellular telephone W01-C01D3
charging from battery W01-C01E5C
charging from generator W01-C01E5D X16-G02C
charging from mains W01-C01E5A
comfort noise generator W01-C01C7A
conference telephone W01-C01G5
confidential data protection W01-C01Q8E
construction W01-C01A
construction, built into clothing W01-C01A3G X27-A02B1
constructional details, casing/handset W01-C01A3
constructional details, internal W01-C01A1
control aspects (general) W01-C01Q
control of transmit-receive gain W01-C01C3A
cordless telephone W01-C01D1
cover W01-C01A6
cradle switch (mechanical) W01-C01A
data protection W01-C01Q8E
data streaming facility W01-C01G6G
dialling by barcode reading T04-A03B1 W01-C01B1C
dialling by voice recognition W01-C01B1B W04-V04A
dialling format detection (e.g. DP/MF) W01-C01B7
dialling information display W01-C01B3
dialling module external to telephone set W01-C01B1D
dialling pulse generator W01-C01B2A
dialling restricted by access code W01-C01B5A
dialling restricted by mechanical lock W01-C01B5D
dialling restricted by voice recognition W01-C01B5B W04-V04A
dialling restricted to certain numbers W01-C01B5C
dialling tone (e.g. MF) generator W01-C01B2C
digital speech processing W01-C01C7
display, back lighting W01-C01A2A X26-U04A1
display, calling subscriber number W01-C01F3
display, constructional aspects W01-C01A2
display, dialling W01-C01B3
display, edge lighting W01-C01A2A X26-U04A2
display, multiple display aspects W01-C01A2C
display, user interface W01-C01B3
dual band mobile phone W01-C01D3J
email facility W01-C0G6C
external speaker mount W01-C01A7
facsimile external switching interface W01-C01H S06-K07C2A
feedback control, haptic systems W01-C01Q6E
fourth generation mobile phone W01-C01D3G
fixed location radio telephone W01-C01D4
gain control W01-C01C1C
GPRS phone W01-C01G6G S06-K07C2A
graphics and display processing W01-C01Q6
hands free dialling W01-C01B1B
hands free kit, mobile phone W01-C01G2C
hands free loudspeaker telephone W01-C01G2A
handset construction V06-V04B1 W01-C01A3
haptic transducer systems W01-C01G8E
haptic signal processing W01-C01Q6E
headset V06-V04A4 V06-V04B W01-C02G2C

hygiene arrangements V06-V02J
V06-V04B1
W01-C01A9
i-mode handset W01-C01D3C
W01-C01G6E
ID security, cellular telephone W01-C01D3D
ID security, cordless telephone W01-C01D1D
idle state determination W01-C01Q7A
instant messaging W01-C01G6F
integrated with answering machine W01-C01P3
integrated with facsimile W01-C01P4
integrated with modem W01-C01P5
integrated with other equipment W01-C01P
integrated with PDA W01-C01P2
intercom W01-C01G1
interfacing systems W01-C01R
internal mounting of components W01-C01A1
ISDN (see also ISDN) W01-C05B7A
ISDN subscriber end interface W01-C01L1
key telephone set W01-C01G3
keyboard V03-C01A2
W01-C01B8
keyboard circuitry/coding W01-C01B8M
keyboard construction W01-C01B8C
keyboard illumination W01-C01B8G
keyboard layout W01-C01B8A
keyboard switching element W01-C01B8E
LCR, subscriber apparatus W01-C01B4
line holding arrangements W01-C01N
line interface arrangements W01-C01L
loudspeaker type W01-C01G2A
memory storage W01-C01Q2
memory storage, internal W01-C01Q2A
memory storage, external W01-C01Q2C
T01-H01B3A
menu-driven telephone W01-C01G8A
metering of calls W01-C01J
MMS telephone W01-C01G6B
multimedia apparatus W01-C01P1
Multimedia Message Service facility W01-C01G6B
multimedia signal processing W01-C01Q6
muting circuit, audio W01-C01C1D
muting ringer W01-C01F1B
packet handling facility W01-C01G6G
personal handy phone (PHS) W01-C01D1E
portable cell phone W01-C01D3C
power saving W01-C01Q7
power supply W01-C01E
program control aspects W01-C01Q3
protection of confidential data W01-C01Q8E
pushbutton telephone set W01-C01G3
push to talk over packet network W01-C01G6H
radiation protectn., construction for W01-C01A4
relative position input W01-C01B8L
repertory dialling W01-C01B1
reply dialler W01-C01B1E
ring tone/tune downloading W01-C01F1P
restricted dialling W01-C01B5
ringer muting W01-C01F1B
ringer timed disconnection W01-C01F1C
ringer transducer W01-C01F1A
ringer volume setting W01-C01F1B
ringing, general W01-C01F1
ringing, mechanical W01-C01F1F
ringing, optical W01-C01F1G
satellite W01-C01D3E
secure dialling W01-C01B5
security based on biometric ID W01-C01Q8C
S05-D01C5A
sensing acceleration of handset W01-C01Q5G
sensing external devices W01-C01Q5C
sensing orientation of handset W01-C01Q5G
sensing other users in vicinity W01-C01Q5B
sensing proximity of user W01-C01Q5A
sensing rotation of handset W01-C01Q5G
short dialing W01-C01B1A
smart phone W01-C01G8
SMS telephone W01-C01G6A
software updating / modification W01-C01Q3A
sound hood W01-C01A7
speech amplifier W01-C01C1
speech amplifier for earphone W01-C01C1B
speech amplifier for loudspeaker W01-C01C1B
speech amplifier for microphone W01-C01C1A
splitter, e.g. POTS / ISDN W01-C01L5
standby arrangements W01-C01Q7
subscriber calling devices W01-C01B
subscriber ISDN equipment W01-C05B7A
switching interface W01-C01H
telephone cable W01-C01X
testing W01-C01K
text messaging telephone W01-C01G6A
third generation mobile phone W01-C01D3G
theft alarm W01-C01Q8A
W05-B01
timed disconnection of ringer W01-C01F1C
transducer (earphone) V06-V01
S05-D01C5A
V06-V04B
W01-C01M
transducer (microphone) V06-V01
V06-V04A2
V06-V04B
W01-C01M
transducer (ringing) W01-C01F1A
transducer testing V06-V03B
V06-V04B1
W01-C01M
UMTS mobile phone W01-C01D3G
video telephone W01-C01G4
voice activated control W01-C01Q4
W04-V
voice dialling W01-C01B1B
WAP phone W01-C01D3C
W01-C01G6E
WLL installation W01-C01D4

Telephone systems (including combination with other systems) W01-C05
advertising W01-C05B5G
W05-E03G
alarm systems W01-C05A
W05-B05G
computer-telephony integration (CTI) W01-C05B4A
cordless call point system (e.g. CT2) W01-B05A1B
W02-C03C3
cordless subscriber system W01-C01D1
data streaming (via telephone system)
W01-C05B3J
dictation systems W01-C05B5E
direct mode radio W01-B05A1D
entertainment systems W01-C05B5A
ENUM W01-C05B4C
facsimile W01-C05B1C
facsimile-modem W01-C05B3H

fixed radio access W01-B05A1G
information systems W01-C05B5C
internet access W01-C05B4E
key W01-C02G5C
marketing W01-C05B5G
mobile commerce W01-C05B6
modem W01-C05B3A
moving picture systems W01-C05B1E
multimedia system W01-C05B2
PCMIA card W01-C05B3L
pushbutton W01-C02G5C
push to talk over packet network W01-C05B4G
radio (mobile) W01-B05A1
W02-C03C1
recording and storage systems W01-C05B5E
remote monitoring W01-C05B3F
W05-D06G
W05-D08E
satellite W01-B05A1E
screen text systems W01-C05B1A
still picture systems W01-C05B1C
telecontrol W01-C05B3E
W05-D06G
W05-D08C
telegraphic systems W01-C05B3
telemetry W01-C05B3F
W05-D06G
W05-D08E
video systems W01-C05B1E
video telephone systems W01-C05B1E
W02-F08B
voice mail W01-C02B7C
W01-C05B5E
voice over data modem W01-C05B3G
voice over IP (VoIP) telephony W01-C05B4C

Telephony connector - see Connector

Telescope S02-B09
optical elements for P81-A50A

Teletext
transmission system W02-F05B5
TV receiver details W03-A10

Television
advertising W05-E03C
camera - see **Video camera** W04-M01
commerce
receiver end W03-A16C5J
system W02-F10J
receiver - see **TV receiver** W03-A
set-top box W03-A16E
signal processing - see **Video signal processing** W04-P
special effects - see **TV special effects**
W04-N05C
standards conversion W04-N05A
studio equipment W04-N01
synchronisation signal generator W04-M05
telecine S06-B05
W04-M02

Television system W02-F
archival storage of content primarily submitted by user W02-F10F
audience research system W02-F04B
bandwidth reduction W02-F07
bilingual sound W02-F06B5
cable - see CATV W02-F03A
CAPTAIN W01-C05B1A
W02-F05B1
clean PAL W02-F06C8
closed circuit W02-F01
coding W02-F07
colour W02-F02
commercial message transmission checking W02-F04C5
W05-E03C
compatible high definition W02-F06C8
conference W02-F08A
descrambling system (general) W02-F05A1B
descrambling system, interactive broadcasting W02-F10N1
W03-A16C3A
different-view transmission (interactive TV) W02-F10A1G
digitally assisted (DATV) W02-F06C8
digital video broadcasting W02-F07M1
emergency broadcasts W02-F05D
equipment testing W02-F04A5
Eureka-95 W02-F06C3
fractal coding W02-F07M
W04-P01A8
ghost control reference (GCR) W02-F05C
high definition W02-F06C
hybrid coding W02-F07E
increased definition W02-F06C8

industrial (ITV) W02-F01
interactive - see Interactive broadcast and entertainment system W02-F10A
jamming signal insertion (general) W02-F05A1A
jamming signal insertion, interactive broadcasting W02-F10N1
letterbox W02-F06C8
logging station output W02-F04C
MAC (and variants) W02-F06C1
NICAM W02-F06B1
non-broadcasting digital video transmission W02-F07M5
NTSC W02-F02
PAL W02-F02
pay-per-view W02-F10A
W02-F10N7
PCM W02-F07
predictive coding W02-F07M
W04-P01A5
SAP W02-F06B5
satellite (DBS) W02-F06A
scrambling system (general) W02-F05A1A
scrambling system, interactive broadcasting W02-F10N1
screen text W02-F05B
SECAM W02-F02
secrecy (general) W02-F05A1
selective insertion of commercial messages
W02-F10Q
signal testing W02-F04A1
station output monitoring W02-F04C
stereophonic sound W02-F06B
stereoscopic W02-F03B
subsampling W02-F07M
W04-P01A7
subscription (general) W02-F05A3

subscription, interactive - see **Interactive broadcast and entertainment system**
W02-F10
surround sound W02-F06B3
teletext W02-F05B5
testing W02-F04A
transform coding W02-F07M
W04-P01A3
two-channel sound W02-F06B5
two-way W02-F08
URL transmission system W02-F05C
verifying schedule adherence W02-F04C
video programming system (VPS) W02-F05C
W04-E04C5
video-on-demand W02-F10A1
videotex W02-F05B9

Telex W01-A07B
W01-C05B3D

Temperature
air-measurement S03-D04
body, measurement, medical S05-D01E
display of S03-B01K

Temperature control T06-B13
auxiliary heater-type T06-B13B2
electric temperature sensing-type T06-B13B1
electrical-type T06-B13B
radiation temperature sensing-type T06-B13B9
without auxiliary power T06-B13A

Temperature measurement - see also Thermometer
for semiconductor mfr. (annealing, deposition) U11-F01A4
infrared S03-A03
using acoustic effect S03-B01X
using chemical indicator S03-B01X
using colour change of liquid crystal S03-B01X
using fibre optics S03-B01G
using photoluminescence quenching S03-B01G

Tennis P36-A01
W04-X01K1P

Tents Q46-B15

Tensile testing - see mechanical strength testing

Tension control, web T06-D08B
X25-F02

Tension measurement
general measurement S02-F01
special purpose measurement S02-F03A

Terahertz
dimensional measurements S02-A05A1
physical or chemical property measurements S03-E05
imaging S03-E05E

Terminal
binding post V04-B05
block V04-B05
block, clip-on for rail/strip mounting V04-B05A
block, coaxial cable V04-B03
V04-M03
block, flat cable V04-B02
V04-M04
block, printed circuit V04-B01
V04-M05
board V04-B05
end pieces, multiconductor cable V04-B04
manufacture, high power inductive device X12-C01D5
manufacture, low power inductive device V02-H06
printed circuit V04-B01
V04-M05
strip V04-B05
strip, coaxial cable V04-B03
V04-M03
strip, flat cable V04-B02
V04-M04
strip, printed circuit V04-B01
V04-M05
fixed capacitor V01-B03D5
resistor V01-A01C5

Terrestrial radio relay systems W02-C03B2

Terrestrial repeaters W02-C03B2B
W02-G05C

Test
data transmission, error detection/correction W01-A01B1
data transmission, error detection/prevention W01-A01C

Test circuits, on chip U11-F01D2
wafer test pad layout, IC testing U11-D03C1A
U11-F01D2

Test appts., for radio equipment S01-G08B
noise generators S01-G08B1
noise-measuring receiver S01-G08B3
screening arrangements for S01-G08B5
signal generators S01-G08B1

Test probe S01-H03
single probe S01-H03B

Testing
A-D converters U21-A03F1
adhesives S03-F08
aerial W02-B08A
aerodynamic S02-J07
aircraft/space vehicles W06-B05
analogue circuit modules S01-G01C3
analogue circuits S01-G01C
analogue ICs S01-G01C1
apparatus S02-J
assembled PCB S01-G01B3
V04-R06D
ATE (automatic test equipment) T01-G02A2A
automatic telephone exchanges W01-C02A1
automatic, digital computing T01-G02A2A
bare PCB S01-G01B1
V04-R06A
battery S01-G06
X16-H
bearings of machine S02-J03A
brakes S02-F03B
braking, vehicle S02-J02B
built in, digital computer T01-G02A2B
built-in self test, for integrated circuits U11-F01D2
cables (with fault location) S01-G05
cables (without fault location) S01-G12F
calorimeters S03-B02
capacitors S01-G12C
V01-B04C1

checking electrical continuity S01-G04C
circuit breakers S01-G10
X13-B08
circuit breakers, moulded case X13-D08
coil S01-G12E5
V02-H09
X12-C01D3
coins or valuable papers T05-J
contacts V03-A08
X13-A01
control system, general T06-A08
current leakage S01-G04A5
data communications equipment W01-A07L5
data network apparatus W01-A06A2A
data networks W01-A06A
differential of machine S02-J03A
diffraction grating S02-J04A9
digital circuits S01-G01A
S01-G01A3
digital logic circuits S01-G01A1
dimension, angle, area, etc. measuring equipment
S02-A07
elasticity of structures S02-J10
electric machines S01-G07
V06-M11M
X11-J08M
electric train/tram system X23-A05
electrical instruments S01-H01
electrolytic capacitors S01-G12C
V01-B01G7C
EM compatability S01-G08C
engines S02-J01
eye S05-D05
flowmeters S02-C07
for fluid tightness S02-J06
for leaks S02-J06
fuses X13-D01C
gain W02-B08A1
gas turbine engine S02-J01C
gas turbine engine for aircraft S02-J01C1
gears of machine S02-J03A
generators, electric X11-J08M
geophones S03-C10
geophysics devices S03-C10
headphones V06-V03B
V06-V04A4
high power inductive device S01-G12E
X12-C01D3
HV networks S01-H02
hybrid circuits U11-F01F
U14-H04B
hydrodynamic S02-J07
IC engine of aircraft S02-J01A1
IC engines S02-J01A
indicating and recording appts. S02-K07
inductive components S01-G12E
V02-H08
X12-C01D3
insulator S01-G13
integrated circuits S01-G01
S01-G01A1
integrated circuits, packaged device, die
U11-F01C3
integrated circuits, wafer level U11-F01D
lasers V08-A06
LCD S02-J04A3A
U14-K01A8
lenses and lens systems S02-J04A5
level indicating S02-C07
light guide S02-J04A1
line transmission systems W02-C01D
liquid crystals S02-J04A3
logic analyser S01-G01A5
logic circuits U21-C03D1
low power inductive device S01-G12E
V02-H08
machine parts S02-J03
machines S02-J
magnetic heads T03-A04A5
magnetic record carriers T03-A02C5
memories U14-D03
military equipment W07-H
modules, cards S01-G01A3
motors, electric V06-M11M
X11-J08M
moulded case circuit breakers X13-D08
noise generators, electrical S01-G08B1
non-destructive S03-F11
optical amplifiers S02-J04A1C
optical appts. S02-J04A
optical communication W02-C04C1
optical disk T03-B01D1
T03-B01E7
optical fibre S02-J04A1A
V07-J
optical instruments S03-A05A
optical recording heads T03-B02B8E
optical test equipment- materials investigation S03-E04P
passive electric components S01-G12
performance testing S02-J
PCB S01-G01B
V04-R06
phase lock loop U23-D01E
pressure measurement S02-F04F
prisms S02-J04A9
probes, contacts at wafer level U11-F01D1
probes, for IC packaged device U11-F01C1
radio antennas S01-G08A5
W02-B08A
radio equipment S01-G08
radio receivers S01-G08A3
radio repeaters S01-G08A1
W02-C05B
W02-G05C
radio transmitters S01-G08A1
reactor, HF S01-G12E5
V02-F01
V02-H08
reactor, power S01-G12E5
X12-C01D3
X12-C01F
reactor, power supply S01-G12E5
V02-G01C
V02-H08
recording equipment (dynamic) T03-K07
W04-J07
relays with contacts V03-D06B
resistors S01-G12A
V01-A04H1
resonators, electromechanical V06-V01E
V06-V03B
scientific instruments S03-H03A
medical apparatus S05-Y01
semiconductor circuits, at wafer level
U11-F01D

semiconductor circuits, using electron microscope U11-F01D3
semiconductor device packages U11-F01E
semiconductor devices S01-G02B
semiconductors, film parameters U11-F01B
ship W06-C05
shock absorbers of vehicle S02-J02A
short circuit S01-G04A1
signal generators, electrical S01-G08B1
signal testing W02-F04A1
special purpose measurement of force S02-F03X
speed/acceleration measurement S02-G07E
static stores U14-D03
steam turbine S02-J01E
X11-A10
structures S02-J
structures by applying shock S02-J08
structures by vibration S02-J08
switches with contacts S01-G10
V03-C07
X13-A04F
switchgear X13-E08
telephone equipment (general) W01-C08C
telephone exchange W01-C02A1
telephone selection equipment W01-B08
telephone subscriber equip. W01-C01K
telephone subscriber line W01-C02A5
telephone transducer V06-V01
V06-V03B
V06-V04B1
W01-C01M
television systems W02-F04A
thermometers S03-B01H1
time division multiplex systems W02-K02B5B
transducers S02-K07
transducers, acoustoelectric V06-V03B
transformer, hf S01-G12E1
V02-F02
V02-H08
transformer, power S01-G12E1
X12-C01D3
X12-C01E
transformer, power supply S01-G12E1
V02-G01A
V02-H08
transformers S01-G12E1
transmission of machine S02-J03A
transmission of vehicle S02-J02X
transmission systems (general) W02-C05
TV receiver W02-F04A5C
TV repeater W02-F04A5B
TV studio equipment W02-F04A5A
TV transmitter W02-F04A5B
vehicle S02-J02
vehicle braking S02-J02B
vehicle crash dummy S02-J02F1
vehicle crash/impact S02-J02F
vehicle electrical system S02-J02E
X22-A05
X22-X06
vehicle steering S02-J02A
vehicle transmission S02-J02X
vehicle tyre performance S02-J02A
vehicle wheels S02-J02A
video camera W04-M01D2J
volume and mass flow measurement S02-C07
VSWR W02-B08A1
weighing appts. S02-D07
wires (with fault location) S01-G05
wires (without fault location) S01-G12F

Testing digital computers T01-G02
ATE (automatic test equipment) T01-G02A2A
built in T01-G02A2B
by comparison T01-G02A2C
Defective hardware location T01-G02A
diagnostics T01-G08
T01-G08A
environment monitoring T01-G11B
fan monitoring T01-G11F
fault simulation T01-G07
hardware T01-G02
hardware, on IC T01-G02A1
logic simulation T01-G
logic simulation, compiled code T01-G06A
logic simulation, hardware accelerator T01-G06C
logic simulation, table driven T01-G06B
marginal T01-G02B
measuring non-processing parameters T01-G11
power monitoring T01-G11A
shock, vibration T01-G04
system/field T01-G02A2
test program T01-G02A2D
test sequence generation T01-G07A
user stress monitoring T01-G11C

Testing dynamic recording equipment T03-K07
W04-J07

Testing semiconductor
active semiconductor material properties U11-F01A
device U11-F01C
device, at wafer/die level S01-G02B1
device, completed(encapsulated) S01-G02B5

Tetrode, vacuum tubes V05-B01A5

Text character generator for TV receiver W03-A10C

Textile
analysis S03-E14G
embroidery machine X25-T04C
control T06-D03D
fabric manufacture, control T06-D03C
knitting machine X25-T04B2
printing X25-T04D
sewing machine X25-T04C
textile loom X25-T04B1
textile loom, control T06-D03C
X25-T04B1
weaving X25-T04B1
yarn manufacture, control T06-D03B
X25-T04A

Theater
general systems W04-X03G1
lighting X26-K

Theft alarms W05-B01
audio/video recording equipment W04-J01C

Theft prevention
cable markings X12-D03C2

Theme park equipment W04-X03G3

Theodolites S02-B05

Therapy, medical S05-A
applying current S05-A04
aromatherapy S05-A09
cardiac massage S05-A05A

cooling S05-A05B
electromagnetic S05-A03E2
heat S05-A05B
homeopathy S05-A09
Infrared S05-A03A1
IR, UV, laser, light S05-A03A
laser S05-A03A2
magnetic S05-A03E1
optical S05-A03
other radiation S05-A03X
pacemakers and defibrillators S05-A01
physical S05-A05E
relaxation S05-A09
respiratory massage S05-A05A
speech S05-A09
ultraviolet S05-A03A3
using electric fields S05-A03B
using magnetic fields S05-A03E
using microwaves S05-A03D
using ultrasound S05-A03C
using visible light S05-A03A9
using X-rays S05-A03F

Thermal
computer printer S06-H
cutoffs X13-D12
fuses X13-D12
ink-jet computer printer S06-G01
paper, for printer S06-H01
prospecting S03-C04A
protectors X13-D12
switches with contacts V03-C06B

Thermal analysis
calorimetry S03-E01C
differential S03-E01E
distillation S03-E01A
emissivity determination S03-E01E
flaw detection S03-E01B3
psychrometry S03-E01B
pyrolysis S03-E01A
sintering S03-E01A
thermal cycling-see also fatigue testing S03-E01B1
thermal fatigue-see also fatigue testing S03-E01B1

Thermal cell X16-A03A

Thermal conductivity measurement S03-E01A

Thermal cutoffs X13-D12

Thermal flowmeter S02-C01B7
circuitry S02-C01B7C
deiice per se S02-C01B7A

Thermal fuses X13-D12

Thermal imager W04-M01E1

Thermal noise reduction (radio receiver) W02-G03B3

Thermal power X15-G02

Thermal printer
ink for S06-H02A
printhead for computer printer S06-H03
using thermal paper S06-H01
using thermal ribbon S06-H02
using thermal transfer sheet S06-H02

Thermal properties
change of state or phase S03-E01A
coefficient of expansion S03-E01A
dew-point S03-E01B
emissivity S03-E01E
explosibility S03-E01B
flash-point S03-E01B
humidity S03-E01B
measuring S03-E01
specific heat S03-E01C
thermal conductivity S03-E01A

Thermal protection U24-F07
X12-C02

Thermal protectors X13-D12
for spacecraft Q25-S06C

Thermionic
electron tube - see Thermionic tube V05-B01
generator V05-K

Thermionic cathode
analysing/processing tube V05-F04A1
CRT V05-D05C1
electron tube (classical) V05-B01B1
heater (general) V05-M02
manufacture V05-L01A1
solid type (general) V05-M02

Thermionic generator V05-K

Thermionic tube V05-B01
anode V05-B01B5
cathode V05-B01B1
characterised by type V05-B01A
cooling V05-B01B6
diode V05-B01A1
grid V05-B01B3
heater element V05-B01B1A
lead-in conductors V05-B01B7
manufacture - see Discharge tube mfr. V05-L05B1
pentode V05-B01A7
testing S01-G02A
tetrode V05-B01A5
triode V05-B01A3
tube details V05-B01B
vessel V05-B01B7

Thermistor V01-A02A
characterised by intended function V01-A02A7
characterised by temp. dependence V01-A02A5
circuit temp. compensation V01-A02A7X
cold conductor V01-A02A7B
current limiter V01-A02A7B
degaussing current control V01-A02A7C
V02-D
W03-A08A4C
for temperature measurement S03-B01F
manufacture - see Resistor manufacture V01-A04K1
motor starting V01-A02A7C
V06-N05
X13-H01A
negative temp. coefft. (NTC) V01-A02A5A
novel composition V01-A02A1
positive temp. coefft. (PTC) V01-A02A5B
self-regulating heater V01-A02A7D
X25-B
thermometer V01-A02A7A
time-dependent current control V01-A02A7C

Thermistor thermometer S03-B01F

Thermocouple S03-B01A
U14-E05A3

Thermoelectric battery X15-D
constructional details X15-W
control, monitoring & testing X15-V
Thermoelectric device U14-E05
X15-D
characterised by material U14-E05B
for cooling U14-E05A2
X27-F02B1
for heating X25-B02F
manufacture U14-E05C
power generating-type U14-E05A1
X15-D
temperature sensors U14-E05A3
thermocouples U14-E05A3
Thermomagnetic device U14-E02
Thermography S03-E01E
Thermometer S03-B01
alcohol S03-B01D
calibration S03-B01H3
casings S03-B01X
compensation S03-B01H5
contraction type S03-B01D
differentiating S03-B01D
expansion type S03-B01D
fibre optic S03-B01G
for aggressive environments S03-B01E1
for special purposes S03-B01E
infrared S03-A03
integrating S03-B01D
linear resistance S03-B01B
liquid crystal S03-B01X
max-min type S03-B01D
mercury S03-B01D
optical S03-B01G
Seebeck effect S03-B01A
testing S03-B01H1
thermistor S03-B01F
V01-A02A7A
thermo-electric S03-B01A
thermocouple S03-B01A
using acoustic effect S03-B01X
using chemical indicator S03-B01X
using colour change if liquid crystal S03-B01X
using crystal resonator frequency S03-B01C
using photoluminescence quenching S03-B01G
using semiconductor pn junction S03-B01C
using thermal noise of resistor/conductor
S03-B01C
Thermometer code (conversion) U21-A05A1
Thermophotovoltaic, energy converters U12-A02A9
X15-A02E
Thermopiles - see Thermoelectric devices, for power generating U14-E05A1
Thermoplastic electrographic layer S06-E01X
S06-E07
Thermostat V03-C06B
bimetallic V03-C06B1
liquid expansion V03-C06B9
solid expansion/deflection V03-C06B1
Thermovoltaic element X15-D
constructional details X15-W
control, monitoring & testing X15-V
Thick film U14-H02
conductive pastes U11-A05
manufacture U14-H04A
manufacture, screen printing U14-H04A1
screen print solders U11-A05A
substrate materials, for semiconductor mfr. U11-A05B
superconducting - see Superconducting thick film U14-F02A
U14-H02
Thick film materials, for semiconductor mfr. U11-A05
Thickness measurement S02-A10B
thickness of sheet or coating S02-A10B1
using electrical/magnetic method S02-A02
S02-A10B
using mechanical method S02-A01
S02-A10B
using optical method S02-A03
S02-A10B
using sound or ultrasound S02-A05B
S02-A10B
Thieves, scaring W05-B01D1
Thieves, trapping W05-B01D1
Thin film
dielectric films, materials U11-A05
insulating layers, materials U11-A05
magnetic recording heads T03-A03E
resistor (discrete) V01-A02C3A
Thin film circuits
amplifiers U14-H01C
filters U14-H01C
for electroluminescent displays U14-H01A
U14-J02
for LCDs U14-H01A
U14-K01A2
general lithography aspects U14-H01F
interconnections U14-H01D
light guides V07-F01A5
line image sensors U14-H01B
memory arrays U14-H01A
transducers U14-H01B
transparent conductive layers U14-H01E
transparent conductive materials U14-H01E1
U14-H01E2
U14-H01E3
transparent conductive structures U14-H01E4
U14-H01E5
two-dimensional arrays U14-H01A
Thin film devices
solar cell U12-A02A2
U12-B03B
X15-A02A
Thin film magnetic head T03-A03E
Thin film packaging U14-H01D
Thin film transistor
electrode formation U11-C05F5
manufacture U11-C18A1
structure U12-B03A
deposition U11-C05B
U11-C05A
Thin film, semiconductor
deposition U11-C01
U11-C01J2

Thin film, superconducting - see Superconducting, thin film U14-F02A
Thin layer chromatography S03-E09C3
Thin magnetic film V02-B
bubble memory U14-A01A1
V02-B02
head T03-A03E
recording medium T03-A01A
Thin/thick film devices U12-B03
capacitors U12-B03B
U12-C02
resistors U12-B03B
U12-C03
solar cell U12-B03B
X15-A02A
transistors U12-B03A
Three-dimensional chip
interconnection U11-D03C3B
wiring U11-D03C3B
Three-dimensional display for TV receiver
W03-A08
W03-A12A
Three-dimensional integration, component isolation U11-C08C
Three-dimensional printed circuit board mfr. (see also PCB mfr.) V04-R05E
Threshold extension FM radio receiver
W02-G03B7
Threshold value indicating S02-K04G
Thumbnail indexing, image recording S02-K04G
W04-H01C5
Thyratron switch X13-A04H
Thyristors U12-D01B
bidirectional U12-D01B2
cooling U11-D02A
field controlled U12-D01B1
forward blocking U12-D01B4
gate turn-off U12-D01B3
manufacture U11-C18B2
packages for U11-D01B1
reverse blocking U12-D01B4
static induction thyristor U12-D01B5
terminals for U11-D03A5
Ticket issuing T05-C01
Tide indication in clock or watch S04-A02B
Tide energy (power generation) X15-C02
blade details X11-B01
control, monitoring, testing X15-C03
tide energy plant type X15-C02A
barrage X15-C02A2
tidal lagoon X15-C02A3
tidal stream system X15-C02A1
turbine arrangement X15-C02B
TIG welding X24-B06
Till, cash T05-L01A
Tilt control, semiconductor lithography U11-C04C3
Tilt correction, optical disk T03-B02A4
Tilt switch V03-C06C
Timber industry X25-X01
Time
indication, mechanical S04-A02
indication, using colour change S04-C07
measurement, of activities or events S04-C03C2
measurement, of electric pulse S04-C03C1
recording S04-E
signal transmission for clock or watch S04-B06
switch S04-C01
V03-C08
Time code recording T03-J01A
W04-H01A
Time compression or expansion in communications W02-G04A1
Time-delay switch V03-B03
X13-A04A
Time division multiplex W02-K02
calling signals W02-K02B1
data transmission W01-A03C
data transmission, TDMA W01-A03C1
framing W02-K02A1
monitoring W02-K02B5
multi-channel access W02-C03C3E
multiframe W02-K02A1
pulse stuffing W02-K02A3
selection for multiplex systems W01-B07
statistical multiplexing W02-K02E
synchronizing W02-K02A
time division duplex W02-K02C
Time programming, recording equipment W04-E04C
by off-air signals W04-E04C5
determining recording priority W04-E04C7A
from programming codes W04-E04C1
from record carriers W04-E04C1
with learning function W04-E04C7
Time shifting, video signal W04-P01N
Time switch S04-C01
V03-C08
Timebase error correction
magnetic recording (general) T03-A06H
video recording W04-F02B
video signal (general) W04-P01N
Timer S04-C
actuation, in photography S06-B02C5
hour glass type S04-C09
per se S04-C02
with alarm S04-C02A
Timer clock S04-C02
Timing S04-C03
activity, operation, event S04-C03C2
chain, for clock or watch S04-B03
electronic signals, pulse duration S04-C03C1
methods and equipment S04-C03A
Timetable P85-A50A
Tin opener X27-B04
Tire inflator, on-board vehicle X22-X09
compressor X25-L03B
Tire pressure measurement S02-F04C1A
testing, for vehicle S02-J02A
vehicle on-board measurement X22-E02B
X22-X06X

Tissue sample analysis S03-E14H6
medical S05-C09
Titration S03-E09D
coulometric S03-E03A
Toaster X27-B02
Tobacco
chewing tobacco P15-A02
cigarette paper and tube P15-T02
filter tip/mouthpiece P15-T01
humidor P15-T99
matchbox P15-T99
non-consumable tobacco P15-A02
packaging P15-T04
pipe P15-T03
tobacco for pipes, cigars and cigarettes P15-A01
tobacco planting/harvesting P15-L01
tobacco processing P15-L05 X25-P03
tobacco processing – control T06-D02
tobacco water/paste P15-A03
TOC (table of contents) recording indexing
audio/video W04-H01C
audio/video, recordable (UTOC) W04-H01C1
general T03-J01C
general, recordable (UTOC) T03-J01C1
Toe-in test on vehicle wheels S02-J02A
Toggle switch V03-C02B X13-A04C2
Toilet
baby chamber pot X27-X01
electrical details X27-L
for aircraft Q25-B01C1
for railway train Q21-J04
for ship Q24-B01C1
for vehicle Q14-L
non-electrical details P28-B04
Tokamak reactor X14-A03
Token actuated mechanism, vending T05-H02B
Token pass data network access W01-A06F1E
Toll system, vehicle T05-D02 T07-A03E X22-X07
Tomography
medical, general S05-D
NMR, for medical purposes S05-D02B
optical coherence S03-E04C3
optical computerised S03-E04C3
X-ray S03-E06B3
X-ray, for medical purposes S05-D02A1
Tone arms W04-A03
Tone control U25-F W03-C05A
combined with gain control U24-C05D
Tone generation, musical instruments W04-U
control W04-U03
electromechanical W04-U02C
electronic W04-U01
Toner, electrophotographic S06-E04
fixing S06-E06
level detector S06-K07B1
liquid S06-E04B1
liquid, application of S06-E04B
recycling S06-K04B
removal S06-K06C
solid S06-E04A1
solid, application of S06-E04C
supply S06-E04C
Tool X25-A03
abrading X25-A03C2
building construction Q45-D
burnishing X25-A03C3
chainsaw X25-X
clock or watch making S04-D
control (see also T06-D07 and X25-A03 codes) T06-D06 X25-A03F
drilling X25-A03B
grinding X25-A03C2
handheld X25-A03D
honing X25-A03C2
lapping X25-A03C2
milling X25-A03C1
mining X25-D02B
polishing X25-A03C3
turning X25-A03A
Toothbrush – see Personal Hygiene
Torch light X26-E01A
based on LED X26-E01A1
Torpedo guidance systems W07-A01
Torque
control T06-B12
measuring S02-F02
special purpose measurement S02-F03B
motor V06-M06 X11-H09
wrench S02-F03B X25-A03D
Touch pad T04-F02A5
Touch switch U21-B02C
Touchscreen
computer input T04-F02A2
constructional details (computer input-type touchscreen) T04-F02C
digital camera/camcorder W04-M01D3E
mobile phone W01-C01B8H
printer/copier/facsimile S06-K07A1
touch sensors U21-B02C
Towel P27-B02
Town plan P85-A50E
Toys P36-E W04-X03E
doll P36-E05 W04-X03E5
manufacture P36-E P36-M W04-X03E
model vehicle P36-E01 W04-X03E1
outdoor P36-E07 W04-X03E2
remote control P36-E W04-X03E8

ride-on vehicle P36-E07
W04-X03E1
W04-X03E2
robot P36-E05
W04-X03E6
stuffed P36-E05
W04-X03E5
virtual pet W04-X03E6

Track accessing servo
general T03-G02B1
magnetic head T03-A05B1
magneto-optical head T03-D01D3A
optical head T03-B02A3C

Track aligning, recording/reproducing heads (general) T03-G02C

Track following servo
general T03-G02C1
magnetic head T03-A05A1C
magneto-optical head T03-D01D5A
optical head T03-B02A3D

Track selecting, recording/reproducing heads
T03-G02B

Trackball for computer input T04-F02B5

Tracking
antenna W02-B06C
electronic imaging W06-A02C1
magnetic head T03-A05A1C
magneto-optical head T03-D01D5A
optical head T03-B02A3D
target seeking (radar) T03-B02A3D
video camera W04-M01D2C

Track pad, for computer input T04-F02B2

Traction motor
control, train/tram X23-A02A
electric vehicle X21-A07
electric vehicle, control X21-A04
train/tram X23-A01A1

Traffic
adverse weather warning T07-G05
classifying vehicle type T07-A01D
congestion warning T07-G01
X22-E11
control T07-C
identifying individual vehicles T07-A03
measuring speed of T07-A01A
modelling of traffic system T07-M
monitoring flow of T07-A01
monitoring vehicle position T07-A05
displaying information to controller T07-A05B
displaying information to driver T07-A05C
displaying information to passenger T07-A05D
for scheduled vehicle T07-A05S
for unscheduled vehicle T07-A05U
parking control T07-F
power generation from traffic flow X15-T
road condition warning T07-G02
signals T07-B
system administration T07-M
toll charging T07-A03E
X22-X07
T05-C03

Traffic control and monitoring (radar) T07-A01
T07-C
W06-A04H7

Traffic lights T07-B05A
X26

Traffic signal control
adverse weather condition monitoring T07-G05
circuitry T07-C01
detector arrangements T07-C03
override system T07-C07
switch T07-C03

Traffic signals T07-B
alarms for T07-C05
ancillary signalling T07-B07
constructional details T07-B01C
control T07-C
details T07-B01
filters T07-B01B
fittings T07-B01B
fixed display T07-B05E
indicating elapsed time T07-B05A5
lamp holders T07-B01B
lenses T07-B01B
light source T07-B01A
monitoring T07-C05
movable display T07-B05G
over-ride control system T07-C07
pedestrian crossing systems T07-B05A
portable, temporary T07-B05A1
reflectors T07-B01B
signal lamp failure monitoring T07-C05
signal type T07-B05
traffic intersection control T07-B05A
variable information display T07-B05C

Train
– **see Railway** Q21
– **see Electric railway** X23

Training equipment
aircraft W06-B04
medical procedures S05-P
military W07-D
musical W04-U07
parachute Q25-X03
radar operator W06-A04E3A
ship W06-C04
sports P85-A01N
W04-X01A

Training simulator
aircraft W06-B04
astronaut Q25-X04
driving W04-W07A
X22-X
general W04-W07A
medical S05-P
W04-W07A
military W07-D05
power distribution/transmission system X12-H05
radar operator W04-W07A
W06-A04E3A
ship W06-C04
sports W04-X01A3
vehicle X22-X

virtual reality-based - see Virtual reality
W04-W07A
W04-W07E

Trajectories, analysis S02-H

Transceivers (radio) W02-G02
answer-back pager W02-G02A3
base station W02-G02B
construction W02-G02H
control W02-G02C
digital architecture W02-G02K
duplex W02-G02A5B
hand-held walkie-talkie W02-G02A1
interfacing W02-G02C
mobile radio (vehicle type) W02-G02A2
monitoring W02-G02C5
portable W02-G02A1
PTT (push-to-talk) W02-G02A5A
selective calling W02-G02A3
testing W02-G02C5
time-division-duplex (TDD) W02-G02A5B
W02-K02C
transmit-receive switching W02-G02C3A
voice-operated switching (VOX) W02-G02A5C

Transducer
AC bridge application S01-F01A
acoustoelectric - see Acoustoelectric transducer V06-V
actuators - see Actuator V06-M06
ambient variation compensation S02-K02B
audio type - Acoustoelectric transducer V06-V
bone conduction type V06-V01P
capacitive measurement S02-K03A1C
characteristics compensation/correction S02-K02A
casings V06-V02E
circuits V06-V02S
communication - see Acoustoelectric transducer V06-V01
V06-V04B
compensation S02-K02
DC or AC bridge application S01-F01A
demonstrating model V06-V02X
W04-W07C
electrical or magnetic S02-K03A
electroacoustic - **see Acoustoelectric transducer** V06-V
electrodynamic S02-K03A1A
electromagnetic V06-V01
fibre-optic S02-K03B1
Hall effect S02-K03A5E
U12-B01A
housings V06-V02E
inductive S02-K03A2C
intelligent V06-V01Q
linearising characteristic S02-K02A
LVDT S02-K03A2C
V02-G01B
magneto-optical S02-K03A5F
magnetoresistive S02-K03A5A
magnetostrictive S02-K03A5C
V06-V01D
manufacture V06-V03A
micromachining V06-V03A7
mark-up language (smart transducer) V06-V01Q
materials V06-V02R
materials manufacture V06-V03A9
Matteucci effect S02-K03A5X
microsensor V06-V01K1
V06-V04G
monitoring, testing V06-V03B
nanosensor V06-V01K2
V06-V04G
noise reduction S02-K02D
optical S02-K03B

piezoelectric (general) S02-K03X
V06-V01B
piezoelectric, medical V06-V01B
V06-V04K
piezoresistive S02-K03A2A
pressure compensation S02-K02B3
protection S02-K02C
resistive S02-K03A2A
resonators - see Resonator V06-V01E
sanitary devices V06-V02J
semiconductor, mfr. U11-C18C
shielding elements
as part of transducer housing V06-V02E
as part of cabinet V06-V02F
smart sensor V06-V01Q
V06-V04G
smart transducer V06-V01Q
tachodynamo S02-K03A1A
V06-M06C
telephone (microphone & loudspeakers) W01-C01M
temperature compensation S02-K02B1
testing, monitoring V06-V03B
thin film U14-H01B
transferring/converting sensor output S02-K03
ultrasonic, communication type V06-V01N
V06-V04B
ultrasonic, general V06-V01N
ultrasonic, motors (non-piezoelectric) V06-M06R
ultrasonic, motors (piezoelectric) V06-M06D1
ultrasonic, resonator V06-V01E
V06-V01N
ultrasonic, sensor V06-V01N
V06-V04G
using magnetic effects S02-K03A5
variable resistor, measurement V01-A03D3

Transducers, applications
alarm V06-V04N
audio/video V06-V04A
communication equipment V06-V04B
computer V06-V04M
display V06-V04Q
domestic V06-V04S
filter, delay lines V06-V04D
hands-free kit V06-V04A4
headphone, earphone V06-V04A4
hearing aid V06-V04A4
V06-V04K
industrial V06-V04L
instrumentation V06-V04G
loudspeaker V06-V04A1
measurement microphone V06-V04G3
medical V06-V04K
microphone V06-V04A2
military V06-V04J

PA system V06-V04A5
personal article V06-V04P
pick-ups V06-V04A3
purification V06-V04T
radio communication V06-V04B2
resonant sensor V06-V04G2
sensor V06-V04G
signalling V06-V04N
sonar V06-V04G1
sport V06-V04R
sterilisation V06-V04T
telephone handset V06-V04B1
toys, games V06-V04R
transformer V06-V04F
vehicle (land, sea or air) V06-V04H
veterinary V06-V04K
vibrators (mechanical work) V06-V04C

TransferJet™ digital interface W01-A07H2N

Transferred electron devices U12-B02A

Transformer
audio V02-F02
broad-band V02-F02
casing, HF V02-F03A
casing, power supply V02-G02A
coil connection, HF V02-F03B
coil connection, power supply V02-G02B
coil/winding insulator, HF V02-F03B1
coil/winding insulator, power supply V02-G02B1
coil/winding manufacture, HF V02-H01B
coil/winding manufacture, power supply V02-H01B
coil/winding, HF V02-F03B
coil/winding, power supply V02-G02B
constructional details, HF V02-F03
constructional details, power supply V02-G02
control using current collector, HF V02-F03C
control using current collector, power supply V02-G02C
control using movable coil/winding, HF V02-F03C2
control using movable coil/winding, power supply V02-G02C2
control using movable core, HF V02-F03C2
control using movable core, power supply V02-G02C2
control using movable shield, HF V02-F03C2
control using movable shield, power supply V02-G02C2
control using tappings on coil/winding, HF V02-F03C1
control using tappings on coil/winding, power supply V02-G02C1
control, HF V02-F03C
control, power supply V02-G02C
cooling, HF V02-F03A1
cooling, power supply V02-G02A1
core manufacture V02-H03A
core, HF V02-F03A2
core, power supply V02-G02A2
current/voltage measurement S01-D01D1A V02-G01B X12-C01G
distribution (see also Power transformer) X12-C01E
flyback, TV V02-F02A W03-A07C W03-A08A1C
helical-scan recording signal transfer T03-A05D3A V02-F02D
HF V02-F02
instrument S01-D01D1A V02-G01B X12-C01G
line output,TV V02-F02A W03-A07C W03-A08A1C
mounting, HF V02-F03A
mounting, power supply V02-G02A
non-linear V02-G01A2
piezoelectric V06-V01B
piezoelectric, multilayer V06-V01B1
piezoelectric, Rosen type V06-V01B2
potential V02-G01B
power (see Power transformer) X12-C01E
power supply V02-G01A
power supply, coil/winding V02-G02B
power supply, core V02-G02A2
power, coil/winding X12-C01B2
power, core X12-C01A X12-C01E
ratio arm bridge S01-F01
screen, HF V02-F03X
screen, power supply V02-G02X
shield, HF V02-F03X
shield, power supply V02-G02X
terminal, HF V02-F03X
terminal, power supply V02-G02X
testing S01-G12E1
variable, HF V02-F02G
variable, power supply V02-G01A1
welding X12-C01E X24-G

Transistors
bipolar, amplifiers (discrete) U24-G04B1
bipolar, doping U11-C02J5
bipolar, electrode manufacture U11-C05F2
bipolar, heterojunction U12-D01A2
bipolar, hot electron U12-D01A3
bipolar, in analogue integrated circuit form - see **analogue integrated circuits, bipolar** U13-B01
bipolar, in digital integrated circuit form - see **digital integrated circuits, bipolar** U13-C01
bipolar, lateral/vertical collector U12-D01A9
bipolar, manufacture U11-C18A2
bipolar, MOS gated U12-D01A1
bipolar, switching U21-B01A
bipolar, testing U11-F01C5 U12-D01A
bipolar, with polysilicon emitter, electrode mfr. U11-C05F2A
bipolar, with SOI substrate U12-D01A5
bipolar, with tunnelling mechanism U12-D01A4
Darlington U12-D01A
high power, terminals for U11-D03A5
hot electron U12-D02J
manufacture U11-C18A
medium/low power, terminals for U11-D03A4
packages for U11-D01B3
planar doped barrier U12-D02J

thin film, mfr. U11-C18A1
thin/thick film (inorganic) U12-B03A
unipolar, manufacture U11-C18A3
unipolar, with tunelling mechanism U12-D02J2

Transit time diodes U12-C01E

Transit time tube V05-C
anode V05-C02A1
beam shaver V05-C02A9
cathode V05-C02A3
circuitry V05-C03
control of tube operation V05-C03C
cooling V05-C02B5
coupling window in vessel V05-C02B1C
delay devices V05-C02C3
distributed coupling V05-C02C5
distributed elements V05-C02C
electrically-tunable resonator V05-C02C1C
electrodes V05-C02A
electron guns V05-C02A5
focussing, magnetic control V05-C02A7A
gyrotron V05-C01D
harmonic suppression V05-C02C7
heater for thermionic cathode V05-C02A3A
klystron V05-C01C
lead-in filters V05-C02B3A
lead-ins V05-C02B3
magnetic control V05-C02A7
manufacture - see Discharge tube mfr. V05-L05C
mechanically-tunable resonator V05-C02C1C
multiple resonator V05-C02C1B
power supplies V05-C03A
resonators V05-C02C1
RFI suppression by distributed element design V05-C02C7
RFI suppression by lead-in filter V05-C02B3A W02-H01
screens V05-C02A9
seals for vessels V05-C02B1A
single resonator V05-C02C1A
slow wave structures V05-C02C3A
tube details V05-C01A1
tunable resonator V05-C02C1C
vessel V05-C02B1

Transmission
electric system - see **Electric power** distribution/transmission system X12-H
electronic system U24-H
facsimile signal S06-K07C
high power system - see **Electric power** distribution/transmission system X12-H
link setting in facsimile S06-K07C4
low power system U24-H
monitoring facsimile signal S06-K07C6
secret, in facsimile S06-K07C7
vehicle Q13 X22-G01

Transmission and distribution system
electric - see **Electric power** distribution/transmission system X12-H
high power - see **Electric power** distribution/transmission system X12-H
low power U24-H

Transmission control, cable/line system W02-C01B1

Transmission line
cables X12-D
installations, communications W01-D
installations, power X12-G
waveguides W02-A

Transmission line communication
communication/control via mains W02-C01A3 X12-H03E
control W02-C01B1
cross-talk reduction W02-C01C2
echo canceller W02-C01C1B
echo reduction W02-C01C1
equalising W02-C01B2
hybrid W02-C01F1
impedance matching W02-C01F5
indicating fault location W02-C01D1
induced current interference reduction in cable W02-C01C3A
interference reduction W02-C01C3
level setting W02-C01B1
monitoring W02-C01D
redundancy network W02-C01D3
repeater W02-C01E
standby system W02-C01D3
strain detector S02-F01
testing W02-C01D
waveguide (RF) W02-A01

Transmission of machine testing S02-J03A

Transmission of vehicle testing S02-J02X

Transmission system (communications)
ground communication W02-C09
inductive loop W02-C02B
line W02-C01
monitoring W02-C05
near-field W02-C02
PCM (general) W02-C06
radiating/leaky cable W02-C02A
radio W02-C03
telemetry/telecontrol W05-D
testing W02-C05
ultrasonic W02-C07
using power lines W02-C01A3 X12-H03E
using waveguide W02-C01A1

Transmitter
digital data (general) W01-A07C
optical communications W02-C04A1
radio – see **Radio transmitter** W02-G01

Transmitting mechanical vibrations P43-A05

Transparent conductive film
general X12-D02A1
LCD U14-K01A1B

Transparent conductive materials U14-H01E1 U14-H01E2 U14-H01E3

Transparent conductive structures U14-H01E4 U14-H01E5

Transplanting, medical S05-X

Transponder
identifying vehicle T04-K03B T07-A03A W06-A04B1
interrogation system W02-G05B
radar jamming W02-G05X W06-A04E1A

telecontrol/telemetry application W05-D08G
transponder per se T04-K03B
W02-G05A
Transport, semiconductor wafers U11-F02A1
Transportation container, electronic component (general) V04-X01A
interrogation systems T05-G02B1A
Transversal filter
analogue U25-A02
digital U22-G01A3
Trapping thieves W05-B01D1
Trash disposal
industrial/large scale X25-W01
domestic X27-K
general P43-E
general, by burning P43-E01
general, by burying or dumping P43-E03
general, by treating or converting P43-E05
Travelling wave
motors V06-M06D1
tubes V05-C01B
Travelling-wave tube (TWT) V05-C01B
application to amplifiers U24-G04D
Treadmill for exercising P36-A06
W04-X01A5C
Treating contaminated ground for reclamation P43-J
Treating solid waste for disposal P43-E05
Tree
exchanges, data W01-A06B4
networks W01-A06B4
timber industry X25-X01
Trellis coding error detection/correction U21-A06C3
Trench capacitor DRAM (see also RAMs, dynamic) U14-A03B4
Trench gate FET - see Field effect transistor, trench gate U12-D02A9
Tri-dimensional integration (see also Integrated circuit structures) U13-D05
Tri-state logic U21-C02C
Triac - see Thyristors, bidirectional U12-D01B2
Trial software T01-J50
Trimming
hybrid circuits U14-H04G
integrated circuits U13-C06
thin/thick film components U14-H04A4
Triode vacuum tube V05-B01A3
Triodes, dielectric U12-B
Trolley Q22-A
hospital, for patients S05-G02A
shopping, coin or token actuated T05-H
shopping, electric propulsion X25-F05A
shopping, point-of-sale aspects T05-L
Trolley bus X21-A01H
Trusses– see Buildings, general mechanical construction and structural elements
TSC static VAR compensator X12-H01A2D
Tube element, electric heating X25-B01D
Tube, analysing - see Analysing tube V05-F01
Tube, cathode ray - see Cathode ray tube and CRT
Tube, discharge - see Discharge tube
Tube, processing - see Processing tube V05-F05
Tube, vacuum - see Vacuum tube
classical vacuum V05-B01
cold cathode V05-B03
complete novel tube V05-D04A
electron beam V05-D
electron microscope V05-F01A1
for data storage V05-D04
for phase shifting V05-D04
for processing V05-F05
for recording V05-F08C3
gas-filled V05-A
gas-filled, details V05-A07
image display V05-D01
image pick-up, details V05-D02B
imaging V05-F08A
ion beam V05-E05
ion diffraction V05-F01
measurement V05-F08B
object processing, examining V05-F
particle separator V05-J01
particle spectrometer V05-J01
photoelectric discharge V05-G
plasma V05-A01
pressure measuring V05-K03
secondary emission V05-K
spectrometer V05-L05J
thermionic V05-L05B1
transit-time V05-C
travelling wave V05-C01B
tube details V05-D04B
vacuum V05-B
with non-light input V05-D03B1
X-ray V05-E01
gas filling V05-F04E
Tumble drier X27-D02
Tumbler mill P41-A03E
Tumbler switch V03-C04
X13-A04D
Tuner
broadcast receiver -see **Broadcast radio** receiver W03-B01
communications receiver -see **Radio** communications receiver W02-G03A
television receiver -see **TV tuner** W03-A01
Tungsten lamp X26-B01A
Tuning
aerial W02-B08E
band selection U25-H
continuous U25-G
discontinuous U25-H
display for broadcast radio receiver W03-B01C
display for TV receiver W03-A01C
MEMS-based U25-G01
remote control of (general) U25-K
varactor-based U25-G03
Tunnel current device V05-F01A5

Tunnel diodes U12-C01G
data recording T03-C05
V05-F08C3
microscope (see also Atomic Force and Scanning Tunnelling Microscopes) V05-F01A5
Tunnel, road
ventilation system X25-U05
Tunnelling hot electron unipolar transistor U12-D02J2
Turbidimeter - see Nephelometer
Turbine
for aircraft propulsion Q25-C02B
for ship propulsion Q24-E02B
Q24-E02C1
gas Q52-A
microturbine plant X11-C15
environmental protection X11-C08
monitoring, operation and control X11-C10
microturbine generator, application X11-U01M
steam Q52-A01S
X11-A01
water X11-B01
wind Q54-G
X15-B01A
wind, microturbine X15-B01A3
Turbo coding error detection/correction
data transmission W01-A01B2E
general U21-A06C2
Turning X25-A03A
control T06-D06
X25-A03A
X25-A03F
Turnstile T05-D01X
Turntables, phonograph W04-A02
TV
advertising W05-E03C
audience research W02-F04B
broadcast systems - see **Television systems** W02-F
cable - see CATV W02-F03A
camera - see Video camera W04-M01
projection - see **Projection TV** W04-Q01
receiver - see **TV receiver** W03-A
recording signal processing - see Video recording signal processing W04-F
signal mixing W04-N05B1
signal processing - see **Video signal processing** W04-P
signal switching W04-N05B5
special effects - see **TV special effects** W04-N05C
standards conversion W04-N05A
studio equipment W04-N
systems - see **Television systems** W02-F
transmitter W02-G01
TV camera - see Video camera W04-M01
TV commerce
receiver end W03-A16C5J
system W02-F10J
TV CRT display W03-A08A
beam current limiting W03-A08A8A
beam index control W03-A08A5E
blanking arrangements W03-A08A7
blanking in response to scan failure W03-A08A7A
blanking part of screen W03-A08A7C
cathode drive circuits W03-A08A8
centering picture on screen W03-A08A1E
convergence W03-A08A5
convergence, automatic W03-A08A5C
convergence, coils W03-A08A5A
deflection circuitry W03-A08A1
deflection signal generator/control W03-A08A1A
deflection yoke V05-D06B1A
W03-A08A1B
degaussing circuitry W03-A08A4C
degaussing coil W03-A08A4A
distortion correction W03-A08A1D
dynamic focussing W03-A08A3A
focus potentiometer W03-A08A3C
focussing coil W03-A08A3C
fractal scanning W03-A08A1J
height control W03-A08A1F
limiting excess beam current W03-A08A8A
linearity correction W03-A08A1D
magnets for convergence W03-A08A5A
matrix drive circuitry W03-A08A8C
non-raster scanning W03-A08A1J
non-uniform speed deflection W03-A08A1G
optical aspects W03-A08A
W03-A08E
progressive scanning W03-A08A1H
projection - see **Projection TV** W03-A08A
W04-Q01A
radiated field suppression W03-A08A6
tube drive circuitry W03-A08A8
velocity modulation W03-A08A1G
width control W03-A08A1F
TV receiver W03-A
ABL W03-A04D1
W03-A08A8A
ACC W03-A05C1
AFC W03-A02A
AGC W03-A03A
ambient lighting-based brightness/contrast control W03-A04D5
ancilliary equipment connection (general) W03-A18C
ancilliary equipment, cable and satellite W03-A16
audience research equipment W03-A18R
audio amplifiers W03-A15A
audio systems W03-A15
automatic chroma control W03-A05C1
auxiliary equipment connection W03-A18C
available functions display W03-A18A9
band scanning W03-A02B
battery power supply W03-A07A
brightness control W03-A04D
cabinet W03-A09A1
cable tuner - see **TV receiver tuner** W03-A01A5
cable TV receiver W03-A16C1
calibration W03-A18A2
car-mounted W03-A
W03-G08
X22-J13
channel number display W03-A01C
channel number storage W03-A02B1
channel number storage, channel listing-based W03-A02B1C

channel number storage, location-based W03-A02B1E
channel number storage, programme guide-based W03-A02B1C W03-A16C5E
channel number storage, receivable stations-based W03-A02B1A
channel number storage, user control W03-A02B1G
channel switching arrangements W03-A02B3
child-lock system W03-A18A7
closed caption system W03-A10G
colour intensity control W03-A05C7
colour killer circuit W03-A05C3
colour signal processing - see TV receiver colour signal processing W03-A05
commercial message detection W03-A18A5G
commercial message storage W03-A16G
colour synchronisation W03-A05A
connection to external HiFi system W03-A15 W03-A18C
constructional details W03-A09A
constructional details, tuner W03-A01B8
contrast control W03-A04D
control (general) W03-A18A
control, remote - see TV receiver remote control W03-A02C
convergence control (CRT) W03-A08A5
cordless headphones W03-A15 W03-G05C5A
CRT display - see TV CRT display W03-A08A
decoder, digital signals W03-A11D
decoder, stereophonic W03-A12B1
decoder, subscription W03-A16C3
decoder, teletext W03-A10A
demodulator, colour signal W03-A05D
demodulator, sound W03-A03C1
demodulator, video W03-A03C5
digital architecture W03-A11K
digital broadcast receiver W03-A11G
discharge protection circuits U24-F W03-A07C
display arrangements - see TV receiver display W03-A08
DSP aspects W03-A11K
dual-standard W03-A11
dual-tuner W03-A01D
DMB receiver W01-C01D3C W01-C01P6G W03-A11G5
DVB receiver W03-A11G
EHT power supply (CRT) W03-A07C W03-A08A1C
emergency broadcast detection W03-A18A5J
EPG W03-A13J
equalizing W03-A04G
error correction, teletext decoder W03-A10A1
error correction, TV decoder W03-A11D1
fast teletext facility W03-A11M5
Freesat W03-A16A
Freeview W03-A11G
freeze-frame display W03-A13C
ghost cancelling W03-A04G
ghost control signal extraction W03-A04G W03-A10J
high definition W03-A11
IF AGC W03-A03A5
IF amplifier W03-A03B5
IF filter W03-A03B1
integrated with telephone W01-C01P6G
interactive aspects W03-A16C5
interfacing hardware W03-A18C1
internal construction W03-A09A5
LCD W03-A08B
LED display W03-A08C
loudspeaker (per se) V06-V04A1 W03-A15C
loudspeaker enclosure V06-V02F V06-V04A1 W03-A15C
luminance-chrominance separation W03-A05B
mains power supply W03-A07A
manufacture W03-A19A
memory – general W03-A11M
memory - decoder/standards conversion W03-A11M1
memory - teletext W03-A11M5
memory - PIP, OSD, etc. W03-A11M3
minimum viewing distance monitoring W03-A18A3
monitoring W03-A18A
monitoring with external equipment W02-F04A5C W03-A18A1
motion detection (signal) W03-A11C
mounting brackets for walls W03-A09C
multi-standard W03-A11
multiple-tuner W03-A01D
noise reduction (video) W03-A04H
on-screen display (OSD) W03-A13G
on-screen display of channel number W03-A01C W03-A13G
packaging W03-A19G
parental control system W03-A18A7
peripheral connection system W03-A18C
picture signal motion detector W03-A11C
picture-in-picture W03-A13B
power supplies W03-A07
production line testing W03-A18A1
programme guide W03-A13J
proximity warning (viewer) W03-A18A3
recycling W03-A19C
remote control - see TV receiver remote control W03-A02C
RF AGC W03-A03A3
satellite equipment (general) W03-A16A
satellite tuner - see TV receiver tuner W03-A01A1
SCART socket W03-A18C
self-checking systems W03-A18A2
self testing and monitoring W03-A18A2
separate audio programme (SAP) decoder W03-A12B1A
set-top box W03-A16E
shipping carton W03-A19G
software updating W03-A18A8A
sound detector W03-A03C1
standard recognition/switching W03-A11B
standards conversion circuits W03-A11A
standby power supply W03-A07A1
stands and supports W03-A09C
stereophonic W03-A12B
stereophonic amplifiers W03-A12B5 W03-A15A
stereophonic decoder W03-A03C1 W03-A12B1
stereophonic loudspeaker systems W03-A12B5 W03-A15C
stereoscopic W03-A12A
still-picture display W03-A13C

subscription equipment W03-A16C
subtitle display system W03-A10G
subtitle memory W03-A11M5
suround sound system W03-A12B3
synchronizing W03-A06
synchronizing signal distribution W03-A06E
synchronizing signal extraction W03-A06A
synchronizing signal presence detection W03-A06A1
synchronizing signal separation (V/H) W03-A06C
synchronizing signal type discrimination W03-A06A5
synthesizer tuning control W03-A02A
teletext W03-A10
teletext character generator W03-A10C
teletext, character sets and fonts W03-A10C5
teletext decoder W03-A10A
teletext error correction W03-A10A1
teletext memory W03-A11M5
teletext, text-to-speech conversion W03-A10X W04-V04C1
testing W03-A18A
testing with external equipment W03-A18A1
time programming W03-A18A5
timed disconnection W03-A07A1
tone control W03-A15A
transcoder W03-A11A1
tuner - see TV receiver tuner W03-A01
tuning display W03-A01C
upscaling W03-A11A5
user identification W03-A18A6
V-chip W03-A18A7
viewer identifying W03-A18A6
viewer locating W03-A18A3
viewing distance monitoring W03-A18A3
virtual keyboard for remote control W03-A02C5A
vision detector W03-A03C5
volume control W03-A15A
VPS control of receiver W03-A10J W03-A18A
white balance control W03-A05C5
zapping W03-A02B3
zoom display W03-A13E1

TV receiver audio system W03-A15
audio amplifier W03-A15A
cordless headphones W03-A15 W03-G05C5A
loudspeaker (per se) V06-V04A1 W03-A15C
loudspeaker enclosures V06-V02F V06-V04A1 W03-A15C
remote control unit audio link W03-A02C5E W03-A15
surround sound W03-A12B3
tone control W03-A15A
volume control W03-A15A

TV receiver color signal processing W03-A05
adaptive luminance-chrominance separation W03-A05B7
colour burst separation W03-A05A3
colour subcarrier recovery W03-A05A1
colour synchronisation W03-A05A
control circuit details W03-A05C
cross colour suppression W03-A05B5
DC restoration/clamping W03-A04C W03-A05X
display interface circuit W03-A08S
dithering W03-A05X
hanging dots interference suppression W03-A05B5
hue/intensity control W03-A05C7
luminance-chrominance separation W03-A05B
matrix circuit W03-A05E

TV receiver display W03-A08
analogous video display W03-A21
aspect ratio control based on standard recognition W03-A11B1A
autostereoscopic W03-A12A
colour filter W03-A08E1
CRT - see TV CRT display W03-A08A
3D glasses, anaglyph W03-A08E7E W03-A12A
3D glasses, shutter type W03-A08E7C W03-A12A
EDID (extended display identification data) W03-A08S1
electro-optical scanning W03-A08F
electroluminescent W03-A08J
filters (optical) W03-A08E
head-mounted W03-A08E7A
interfacing W03-A08S
interfacing, digital display W03-A08S1
interfacing, matrix drive details W03-A08S5
laser W03-A08F1
LCD W03-A08B
LCD, drive circuitry W03-A08B1
LCD, module aspects W03-A08B1
LED W03-A08C
lens W03-A08E3
mirror W03-A08E5
novel standard recognition circuit W03-A11B5
optical aspects W03-A08E
optomechanical scanning W03-A08F
OSD W03-A13G
picture-in-picture W03-A13B
plasma W03-A08D
polarising filter W03-A08E1
privacy arrangements W03-A08L
projection (see also Projection television) W03-A08 W04-Q01
stereoscopic W03-A12A
tuning indication W03-A01C
video display (analogous to TV) W03-A21

TV receiver remote control W03-A02C
remote control system W03-A02C5
remote control system involving on-screen display W03-A02C5A
remote control system with additional features W03-A02C5E
GUI aspects W03-A02C5A
image recognition-based control W03-A02C5J
receiver-end circuitry W03-A02C5G
remote unit W03-A02C1
remote unit audio link W03-A02C5E W03-A15 W03-G05A5
remote unit location system W03-A02C5C
remote unit, circuitry W03-A02C1A
remote unit, construction W03-A02C1C
virtual keyboard for remote control W03-A02C5A

voice recognition-based control W03-A02C5L
W04-V04A5
TV receiver standard recognition W03-A11B
automatically switching receiver circuitry W03-A11B1
controlling scanning format or display area W03-A11B1A
novel standard recognition circuit W03-A11B5
TV receiver tuner W03-A01
AFC W03-A02A
AGC, IF W03-A03A5
AGC, RF W03-A03A3
AGC, novel control characteristic W03-A03A1
band scanning W03-A02B
cable tuner W03-A01A5
channel number storage W03-A02B1
channel number storage, channel listing-based W03-A02B1C
channel number storage, location-based W03-A02B1E
channel number storage, programme guide-based W03-A02B1C
channel number storage, receivable stations-based W03-A02B1A
channel number storage, user control based W03-A02B1G
construction W03-A01B8
DBS W03-A01A1
direct conversion W03-A01B6A
diversity circuitry W02-C03A
W03-A01B9
homodyne W03-A01B6A
input filters W03-A01B1
local oscillator W03-A01B7
low-IF configuration W03-A01B6C
mixer W03-A01B5
mixer, image rejection W03-A01B5A
RF amplifier W03-A01B3
satellite tuner W03-A01A1
synchrodyne W03-A01B9
synthesizer tuning W03-A02A
tuned circuits W03-A01B1
zero-IF configuration W03-A01B6A
TV receiver video signal processing W03-A04
aperture correction W03-A04B1
bandwidth control W03-A04B
brightness control W03-A04D
clamping circuits W03-A04C
colour - see TV receiver colour signal processing W03-A05
contrast control W03-A04D
display interface circuit W03-A08S
equalizing W03-A04G
gamma control W03-A04A
ghost cancelling W03-A04G
ghost control signal extraction W03-A04G
W03-A10J
high definition W03-A11
movement detection W03-A11C
noise reduction W03-A04H
peaking W03-A04B1
standard recognition/switching W03-A11B
TV signal motion detector
coding, hybrid W04-P01A4A
coding, MPEG W04-P01A4A
coding, predictive W04-P01A5A
coding, transform W04-P01A5A
general W04-P01A1
receiver W03-A11C
video recording W04-F01F1
TV special effects W04-N05C
advertising image substitution W04-N05C5E
W05-E03C
chroma keying W04-N05C5A
highlighting W04-N05C9
image generation W04-N05C1
image manipulation W04-N05C3
industrial application W04-N05G5
picture inlay/overlay W04-N05C5
shading W04-N05C9
soft focus W04-N05C9
subtitle generator W04-N05C1A
TV studio application W04-N05G1
zooming W04-N05C3A
TV standard recognition circuit
TV receiver W03-A11B5
video recording W04-F01H1
TV studio equipment
general equipment W04-N01
mixing desk W04-N05B1
W04-N05G1
switching W04-N05B5
W04-N05G1
video processing equipment (general) W04-N05G1
video processing equipment testing W02-F04A5A
W04-N05G1
Twisted pair data network W01-A06C2B
Twisting X25-F02
X25-T04A
control, yarn T06-D03B
X25-T04A
Two dimensional arrays, thin film U14-H01A
Two-part connector - see Connector, two-part
Two-way television system W02-F08
conference system W02-F08A
video telephone W02-F08B
TWT V05-C01B
tube details V05-C01B1
Tyndall scattering S03-E04C
Typewriter P75-A
casing, framework P75-A01
computer printer S06-F02
cooling arrangements P75-A06
drive arrangements P75-A05
inking arrangements P75-A04
keyboard arrangements P75-A02
media conveying P75-A03
self contained S06-K99B

U

Ultrasonic
- actuator, non-piezoelectric V06-M06R
- actuator, piezoelectric V06-M06D1
- antitheft alarms W05-B01C1B
- burglar alarms W05-B01C1A
- cleaning P43-B07C
  X25-H09A
  V06-V01N
  V06-V04C
- contrast media, medical S05-D03C
- delay lines
  (electromechanical) V06-V01N
  V06-V04D2
- density measurement S03-E08C
- diagnosis, medical S05-D03
- diameter measurement S02-A05B
  S02-A10A
- equipment details S03-E08X
- flaw detection S03-E08A
- imaging S03-E08E
- intruder alarms W05-B01C1A
- massager for medical use S05-A05
- measurement of fluid speed S02-G02X
- medical diagnostic image processing S05-D03E
- medical therapy S05-A03C
- medical, non-transducer details S05-D03B
- medical, transducer array S05-D03A2
- medical, transducers S05-D03A
- medical, ultrasonic transducer details S05-D03A1
- microscope S03-E08G
- motor, non-piezoelectric V06-M06R
- motor, piezoelectric V06-M06D1
- piezoelectric transducer, medical use V06-V01B
  V06-V04K
- probe S03-E08X
- signal transmission, telemetry/telecontrol W05-D06A5
- sonar W06-A05
- sound transmission W02-C07
- sound transmission communication W02-C07A
- speed and ranging systems for vehicles W06-A05A
- soldering X24-A02X
  V04-R04A4
- surgery S05-B02
- transducer per se V06-V01N
- vibrators V06-V01N
  V06-V04C
- welding X24-D08A

Ultraviolet detector fire alarm W05-B02B5

Ultraviolet erasable ROMs U14-A06C

Ultraviolet lamp X26-Q03

Ultra Wide Band (UWB) communication W02-K05A9
- carrier-based impulse radio system W02-K05A9C
- carrier-free impulse radio system W02-K05A9A
- UWB data interface link W01-A07H2K
- UWB data network link W01-A06C4K

Umbrella
- electrical details X27-A02
- manufacture P24-M
- non-electrical details P24-A02

UMTS
- system aspects W01-B05A1A
  W02-C03C1A
  W02-C03C1G
- telephone set W01-C01D3G

Undersampling U21-A03F6C

Under-voltage protection X13-C01C

Underfloor heating, electric X27-E01A3
- control X27-E01A3

Uninterruptible power supply - see Standby power supply

Universal motor V06-M02
X11-F

Universal remote control
- AV equipment W03-G05A1A
- general W05-D08L

Unload/load ramp for hard disk drive T03-A05G
T03-A08A1C

Unsolicited advertising protection T01-N02B1C

UPS - see Standby power supply

Upscaling (video signals)
- recording/playback W04-F01H3C
- TV receiver W03-A11A5

Urine analysis S03-E14H9
- medical S05-C02

User configurable arrays - see Logic arrays, integrated circuits U13-C04C

User interface
- printing device S06-K07A1

USIM W01-C01D3D
W01-C01D3G

Utility failure alarm W05-B08J

Utility meter
- digital electricity meters S01-B03
- electric S01-B
  X12-H04
- electric, applications S01-B
  X12-H04U
- electric, applications for network control S01-B
  X12-H04U2
- electric, applications for network protection S01-B
  X12-H04U1
  X13-C01X
  X13-C04A
- Internet/Intranet-based T01
  X12-H04B
- remote reading, electric S01-B01
  X12-H04A
- remote reading, general S02-K08A
- tamper protection, electric meter S01-B05
  X12-H04

Utility metering – see Utility meter

UTOC (user table of contents) recording indexing
- audio/video W04-H01C1
- general T03-J01C1

UV - see Ultraviolet

UV lamp X26-Q03

UV spectroscopy - see Spectrometry coil V05-D01B3

UWB
Ultrawideband (UWB)
and time-hopping systems W02-K05A9
UWB and impulse radio interface link W01-A07H2K
UWB and impulse radio network link W01-A06C4K

V

V-BLAST hybrid diversity systems W02-C03A5
Vacuum
apparatus, semiconductor manufacture U11-C09Q
gauges S02-F04D1
tube V05-B
Vacuum circuit breaker X13-B02A
Vacuum cleaner X27-D04
accessory X27-D04A
accessory, nozzles X27-D04A
accessory, paper bag X27-D04A
accessory, tools X27-D04A
accessory, constructional details of X27-D04A
centrally-operated X27-D09
constructional details X27-D04
control X27-D04B1
control, motor V06-N X27-D04B1
dual-cyclone type X27-D04C
multi-cyclone type X27-D04C
motor V06-M X27-D04B
Vacuum evaporation, applying magnetic films to substrate T03-A02A3 V02-H02A
Vacuum flask X27-B
Vacuum fluorescent display V05-D01C
Vacuum lock, discharge tubes
analysing/processing tube V05-F04D3
sample/specimen introduction (general) V05-M05D1
Vacuum measurement S02-F04D1
calibration S02-F04F
testing S02-F04F
Vacuum tube
anode V05-B01B5
cathode V05-B01B1
cold cathode - see Cold cathode tube V05-B03
complete novel tube V05-B01B8
control grid V05-B01B3A
cooling V05-B01B6
diode V05-B01A1
forced air cooling V05-B01B6A
grids V05-B01B3
heater element V05-B01B1A
lead-in conductors V05-B01B7
liquid cooling V05-B01B6B
manufacture - see **Discharge tube mfr.** V05-L05B1
microfabricated - see Microfabricated cold cathode device U12-B03D V05-B05
pentode V05-B01A7
tetrode V05-B01A5
thermionic V05-B01
tube details V05-B01B
vapour cooling V05-B01B6C
vessel V05-B01B7
Vacuum tube switch X13-A04H
Valuable papers
sorting or delivering T05-K02
testing T05-J

Valve Q66-F
check Q66-P01
diaphragm Q66-C
electromagnetic - see Electromagnetic valve X25-L01A
electrohydraulic valve X25-L01
gate/sliding Q66-B
lift Q66-A
mixer/multiway Q66-E
pipelines X25-Y02
rotary Q66-D
safety/equalising Q66-P03
vent Q66-P03

Vapour deposition
conductive layer formation U11-C05C2
of magnetic films in carrier mfr. T03-A02A3B

Vapour phase epitaxy U11-C01A1

VAR compensation/control X12-H01A2
distribution line side X12-H01A2A
load side X12-H01A2B
series capacitor X12-H01A2C
shunt reactor X12-H01A2C
static X12-H01A2D
thyristor-controlled reactor X12-H01A2D
thyristor-switched capacitor X12-H01A2B
transmission line side X12-H01A2A
TSC X12-H01A2D

Variable capacitor, mechanical V01-B02A
dielectric details V01-B02A3
electrode details V01-B02A1
external connections V01-B02A1C
housing V01-B02A4
manufacture - see Capacitor manufacture V01-B04A6
mounting kit V01-B02A4
multi-section V01-B02A5F
rotor, moving electrode V01-B02A1A
stator V01-B02A1B
substrate V01-B02A4
surface-mounted V01-B02A5E
terminals V01-B02A1C
transducer V01-B02A5C
trimmer capacitor V01-B02A5B
tuning capacitors V01-B02A5A

Variable capacitor, non-mechanical V01-B02B
electret V01-B02B5
ferroelectric V01-B02B9
manufacture - see Capacitor manufacture V01-B04A6
transducer V01-B02B3
varicap diode U12-C02B V01-B02B1

Variable length code converter U21-A05A2A

Variable ratio divider (counter circuits) U21-D05B2
for PLL frequency synthesiser U21-D05B2 U23-D01B1

Variable resistor V01-A03
actuator mechanism V01-A03F
casing V01-A03A1
characterised by adjustment type V01-A03D
control knob for V01-A03F
dust cover V01-A03A1
electrodes V01-A03B
film track V01-A03C1
front panel control V01-A03D1
helical potentiometer V01-A03D5A
helical resistance track V01-A03C7A
housing V01-A03A1
joystick mechanical drive V01-A03F
linear adjustment V01-A03D6
linear resistance track V01-A03C5
manual control V01-A03D1
manufacture - see Resistor manufacture V01-A04K6
measurement transducer V01-A03D3
mounting details V01-A03A5
preset potentiometer V01-A03D2
remote indication of potentiometer position V01-A03X
rotary resistance track V01-A03C7
rotational adjustment V01-A03D5
slide-type potentiometer V01-A03D6
slider electrode V01-A03B5
surface mounting V01-A03D4
terminals V01-A03B1
trimmer potentiometer V01-A03D2
wiper electrode V01-A03B5
wire resistance track V01-A03C3

Varistor V01-A02B
combined with capacitor V01-A02B V01-B03C8
manufacture - see Resistor manufacture V01-A04K2
novel composition V01-A02B1
stack, for power antisurge application X13-C03A

VCO, pulse generation U22-A04A9

VCR PLUS W04-B10C W04-E04C1

VDRs V01-A02B

VDU control T04-H

Vector computation T01-J04C

Vector excited linear predictive speech encoding W04-V05G3A

Vehicle
3-D course control T06-B01X
3-D position control T06-B01X
ABS X22-C02C3
accelerating indicator light X22-B02A1
acceleration sensor S02-G03 X22-X06B
accessory Q14 X22-J
accessory malfunction display X22-E10
accident data recorder X22-E12
active noise control W04-V07 X22-A03X X22-A12 X22-X08
advertising W05-E03M
aerial W02-B X22-X02A
aerial, body/roof-mounted W02-B08F1B X22-X02A1
aerial, glass-mounted W02-B08F1A X22-X02A3

agricultural type Q19-G
X22-P09
X25-N01A
agricultural implement/ implement control X22-X11
air bag Q14-C02
X22-J07
dashboard mounted airbag Q14-C02C3
for protecting driver Q14-C02A1
for protecting front passenger Q14-C02A2
for protecting rear passengers Q14-C02A3
inflatable knee bolster Q14-C02C1
roof mounted airbag Q14-C02C4
side/curtain airbag Q14-C02C2
steering wheel mounted airbag Q14-C02C3
air conditioner X22-J02E
air conditioner, mechanical Q14-M
air-fuel ratio control X22-A03A2A
air treatment arrangements X22-J02E3
alcohol fuel-type engine Q51-D07
X22-A20E
alternator X11-D
X22-F02
alternator control X13-H02
X22-F02
altitude control T06-B01B
ambient pressure measurement X22-A05A1
ambulance X22-P10
anti-lock brake system X22-C02C3
anti-skid brake system X22-C02C3
anti-slip brake regulation X22-C02C1
anti-theft supply cut-off switch X22-F09
anticollision aid X22-E13
X22-J05
anticollision optical system W06-A06H1A
W06-A06H1K
X22-J05C
anticollision radar system W06-A04H1A
W06-A04H1K
X22-J05A
anticollision sonar system W06-A05H1A
W06-A05H1K
X22-J05B
anticollision systems (external) T07-E
antistatic arrangement X22-X
antitheft device Q14-H
W05-B01
X22-X03
assembly line Q16-D01
X22-X20A
X25-X14
ASR braking control X22-C02C1
attitude control T06-B01B
audible reversing warning X22-B03A
automatic brake initiation X22-C02D
automatic hill stop brake X22-C02D2
automatic steering Q18-B07
T06-B01A
T07-D
X22-C05B
automatic transmission Q13-A01A
X22-G01C
auxiliary supply X22-F03
battery X16-B
X22-F01
battery charging X16-G02
X22-F01A
battery charging indicator S01-G06A
X16-H01
X22-E03
battery charging off-board unit X16-G
X22-F01A2
battery charging using jumper cables X16-G02
X22-F01A1
battery circuit/power supply disabling circuit/switch X22-F09
battery voltage regulator X13-H02
X16-G02C
X22-F02
bed Q14-B
body-mounted aerial X22-X02A1
boot X22-X05
Q17-A02
brake-by-wire X22-C02C7
brake light X22-B02A
brake-related instrumentation X22-E02A
brake safety X22-C02D1A
braking Q18-A
X22-C02
braking for collision prevention X22-C02D1
braking for theft prevention X22-C02D3
braking force controller X22-C02C
braking indicator X22-B02A
breathalyser S03-E14H9
S05-C09
X22-E04
bumper Q17-A12
bushing, cable installation X22-X01B2
by-wire control X22-A03W
X22-W
cable installation X22-X01B
car pool X22-U
car telephone mounting X22-X02B
carburettor Q51-H01A
X22-A02C
car wash Q16-A01
X25-H09C
cathodic protection X22-X
X25-R06
CD player mounting X22-X02B
central locking Q14-H01
X22-D01
chassis Q19-A01
cigarette lighter X22-J06
clamp, cable installation X22-X01B1
climate control X22-J02E1
clothing X22-J11C
clutch Q13-A03
Q63-B
X22-G01
collision imminence alarm X22-E13
commercial type X22-P05
common rail fuel injection Q51-H01B1
X22-A02A3
communications network (general) X22-K03
complete engine management X22-A03F
connector V04-M30C
X22-A01A
X22-X01A
construction type X22-P07
container refrigeration X22-P05
X22-X04
X27-F
control pedals' position sensor X22-X06L
counting (external) T07-A01C

courtesy light X22-B03B
crash sensor X22-X06B
Vehicle continued
cruising speed control X22-A03B1
cruising speed control by using brakes X22-C02D4
cruising speed control by using throttle control X22-A03B1A
cruising speed control using transmission X22-G03A
curtain Q14-D
X22-J09
CVT Q13-A01C
X22-G01
cycle carrier Q14-F02
damper Q12-B02
electric springs/dampers X22-M01C
magnetic damper Q63-E02E
mechanical damper Q12-B02A
X22-M01A
fluid damper Q12-B02B
torsion damper Q12-B02C
rubber damper Q12-B02D
Q63-E02D
dashboard instrumentation Q17-A11
X22-E
de-odoriser X22-J02E
design Q16-D09
X22-X20E
diagnostics X22-X06N
diagnostics, engine X22-A05N
diesel fuel type engine Q51-D03
X22-A20C
differential Q13-A09
differential control X22-G05
disabled people-aid Q14-I
S05-K
X22-X
discharge lamp, headlamp/headlight X22-B01A1
X26-A
distance sensor, parking/anti-collision aid S02-B01
X22-J05
X22-X06F
distance to obstacle alarm X22-E13
distributor V04-L09
X22-A01C1
door Q17-A06
X22-X05
door lock light X22-B09
door switch X22-D02
drive-by-wire X22-A03W
X22-A03B2
driver alertness alarm X22-E04A
driver behaviour monitoring X22-E04D
driver information radar W06-A
X22-E11
driver protection alarm W05-B07E
driving instruction simulator W04-W07A
X22-X
drowsiness detector X22-E04A
drunkenness detection X22-E04A
electric connector V04-M30C
X22-X01A
electric motor/IC engine prime movers X21-A01D
X22-P04
electronic components (general) X22-X10
electronic stability control (ESR) X22-C02C5
electronic throttle control X22-A03B2
emergency services type Q19-H
X22-P10
emergency signal light X22-B03E
engine Q17-E
Q51
X22-A
engine active noise control/suppression (see also W04-V codes) X22-A03X
X22-A12
engine air filter Q51-H05F
X22-A06
engine air flow sensor X22-A05D
engine braking Q51-J07
X22-A09
engine by-wire control X22-A03W
engine cam control Q51-E05
X22-A03G
engine catalytic converter Q51-J02B
X22-A07
engine catalytic converter heater X22-A07
engine control X22-A03
engine cooling Q17-E02
Q51-G
X22-A10
engine cooling fan X22-A10
engine cooling pump X22-A10
engine crankshaft angle/position sensor X22-A05C
engine EGR valve X22-A07
engine exhaust gas cleaning Q51-J02
X22-A07
engine exhaust valve Q17-E09
Q51-E01
X22-A11
engine external heating for starting X22-A13
engine fuel flow sensor X22-A05D
engine gas flow sensor X22-A05D
engine gas sensor S03-E03
X22-A05B
engine glow plug X22-A01E3
engine ignition switch (see also V03-C codes) X22-A08
engine immobiliser X22-A08C
engine inlet valve Q51-E
X22-A11
engine inlet/outlet valves' control X22-A03G
engine intake air heater X22-A15
engine keyless starting X22-A08A
engine knock detector S02-F04D3A
X22-A05A2
engine lambda sensor X22-A05B
engine lubricating Q51-F
X22-A09
dry sump Q51-F01A
engine management by fuzzy control X22-A03K
engine manufacture Q51-M
engine measurements X22-A05
engine multi-fuel proportion measuring X22-A05H
X22-A20A
engine negative pressure measurement X22-A05A3
engine noise detection X22-A05A6
engine noise reduction/damping Q17-N
X22-A12
engine operation indicator X22-E01

engine power/torque control X22-A03D
engine pressure sensor X22-A05A4
engine related diagnostics X22-A05N
Vehicle continued
engine remote starting (see also W05-D codes) X22-A08A
engine rotation sensor X22-A05C
engine rpm counter X22-A05C
engine secondary air control X22-A03L
engine sensor X22-A05
engine speed sensor X22-A05C
engine starter X22-A08
engine starter gear X22-A08
engine starting relay (see also V03-D codes) X22-A08
engine starting solenoid (see also V02-E02 codes) X22-A08
engine supercharger Q51-H05A
X22-A14
engine swirl control Q51-H05E
X22-A03I
engine TDC position sensor X22-A05C
engine temperature instrumentation X22-E01B
engine temperature sensor X22-A05F3
engine thermostat (see also V03-C06 codes) X22-A10
engine throttle position sensor X22-A05E
engine torque sensor X22-A05G
engine turbocharger Q51-H05A
X22-A14
engine vacuum sensor X22-A05A3
engine vibration control X22-A03X
engine vibration sensor X22-A05A6
exhaust Q17-E09
Q51-J
exhaust braking Q51-J07
X22-A09
exhaust braking control X22-A03B5
exhaust gas recirculation Q17-E09
Q51-J02E
control X22-A03A2C
exhaust temp sensor X22-A05F1
external combustion type Q52-A01
X22-P03
filter-clogging instrumentation X22-E01A
fire engine Q19-H02
X22-P10
flat cable arrangement for steering wheel V04-N
X22-C05C
X22-X01B
flywheel energy storage X22-A09
Q13-A04
footrest Q14-P
four-wheel drive system Q13-A11
X22-G05
four-wheel steering Q18-B09
X22-C05A1
fuel additive system Q51-H01G
X22-A02F
fuel consumption instrumentation X22-E01A
fuel contamination instrumentation X22-E01A
fuel direct injection X22-A02A5
fuel injection Q51-H01B
X22-A02A
fuel injection control X22-A03A1
fuel injection quantity control X22-A03A1C
fuel injection timing control X22-A03A1A
fuel injection valve X22-A02A1
fuel level instrumentation X22-E01A
fuel level sensing X22-A05L
fuel pressure regulator X22-A02R
fuel pressure regulation X22-A03A5
fuel pump Q51-H01C
X22-A02D
fuel pump control X22-A03A3
fuel purging X22-A02E
fuel purging control X22-A03A4
fuel supply control X22-A03A
fuel system Q51-H01
X22-A02
fuel system carburettor Q51-H01A
X22-A02C
fuel system filter Q51-H01F
X22-A02B
fuel system heater X22-A02B
fuel treatment system X22-A02F
fuel vapour recovery system X22-A02E
fuse box X22-X01C
fuzzy control T01-J16B
X22-A03K
X22-Q
gas turbine propulsion unit Q52-A
X22-P03
X22-X
gas turbine type Q52-A01
X22-P03
gear Q13-A24
Q64-C
X22-G01
glass-mounted aerial X22-X02A3
grommet, cable installation X12-G04A3
X22-X01B2
guidance by computer T01-J07D3
guidance systems T07-D
hand brake Q18-A01P
X22-C02A
hazard light X22-B02X
head-up display X22-E07
headlamp X22-B01
X26-U07
headlamp bulb X22-B01A
X26-A
X26-B
discharge lamp X22-B01A1
incandescent bulb X22-B01A3
LED X22-B01A5
X26-H
X26-U07
headlamp control X22-B01F
headlamp position control X22-B01E
X26-L
headlamp, fixture X22-B01B
X26-D
headlamp, switch X22-B01D
headlamp, washer X22-B01C
X22-J01
heating X22-J02C
horn X22-B03H
HVAC Q14-M
X22-J02
hybrid Q19-Q
X21-A01D
X22-P04

hybrid-electric Q19-Q01
X22-P04A

Vehicle continued
hybrid-mechanical Q19-Q05
X22-P04E
IC engine Q17-E
X22-A
IC engine malfunction display X22-E10
IC engine pollution control Q51-J
X22-A03J
IC engine temperature control X22-A03H
IC engine testing S02-J01A
identification (external) T07-A03
T07-A03C
idling speed control X22-A03B3
ignition X22-A01
ignition advancing, using knock detection
X22-A01B1
ignition cable X12-D03
X22-A01A
ignition circuit breaker X22-A01C2
ignition circuit maker X22-A01C2
ignition coil V02-G01
X22-A01A
ignition coil/spark plug combinations X22-A01E1G
ignition glow plug X22-A01E3
ignition noise redn/spark plug combination
X22-A01E1J
ignition pick-up device X22-A01C3
ignition plasma plug X22-A01E
ignition retarding, using knock detection
X22-A01B1
ignition system X22-A01A
ignition testing S02-J01A
X22-A01D
ignition timing control X22-A01B
ignition timing testing S02-J01A
X22-A01D
ignition, advancing X22-A01B2
ignition, automatic disablement X22-A01A5
ignition, noise reduction circuit X22-A01A9
ignition, retarding X22-A01B3
ignition, RF suppression X22-A01A9
ignition, safety X22-A01A7
ignition, using capacitive energy storage
X22-A01A9
ignition, using dynamo-electric generator
X22-A01A1
ignition, using glow plug heating X22-A01A3
ignition, using inductive energy storage
X22-A01A2
ignition, using magneto-electric generator X22-A01A1
ignition, without energy storage X22-A01A1
illuminated display for other drivers X22-B05
image recording (external) T07-A03C
in-car entertainment system X22-J13
in-car office equipment X22-J12
incandescent lamp, headlamp/headlight
X22-B01A3
X26-B
indicator lamp X22-B02D
inertia sensor, air bag S02-G03
X22-X06B
inertia sensor, seat belt S02-G03
X22-X06B
information recording (external) T07-A03
T07-A03C
instrumentation Q17-A11
X22-E
integrated engine/transmission control
X22-A03F
X22-G03
interior light X22-B03B
keyless entry X22-D01A2
lane crossing/deviation alarm X22-E13
lane deviation measuring or sensing X22-X06G
lane sensor X22-E13
license plate Q14-R
X22-J14
illumination X22-B05
light fixture X22-B02B
light switch (general) X22-B09
lighting X22-B
X26
load weighing system X22-X06K
lock Q14-H01
X22-D01
loudspeaker mounting V06-V02F
V06-V04A1
V06-V04H
X22-X02B
luggage rack Q14-F02
main light bulb X22-B01A
X26-A
X26-B
main light, fixture X22-B01B
X26-D
maintenance Q16-A
X22-X16
maintenance-need display X22-E10
manual transmission Q13-A01M
X22-G01E
manufacturing plant Q16-D
X22-X20A
X25-X14
measurement, distance to obstacle S02-B01
X22-X06F
mileage indicator X22-E05
military type Q19-D
W07-X01
X22-P06
milometer X22-E05
mirror Q14-E
X22-J04
mirror demister X22-J02A
X25-B01C1C
mirror position control X22-J04
model vehicle for commercial or industrial use W04-X03E1M
moisture sensor S03-E
S03-F09
X22-X06E
mudguard Q14-K
multi-fuel type engine Q51-D05
X22-A20A
multiplex control system W02-K
W05-D02
X22-K03
for electric vehicle X21-K

multiplex control system using computer T01-J07D1B W02-K W05-D02 W05-D07D X22-K03

Vehicle continued

navigation aid S02-B08 W06-A X22-E06
navigation by dead reckoning S02-B08 X22-E06A
navigation techniques S02-B08 X22-E06
navigation using GPS S02-B08C W06-A03A5C X22-E06B
navigation using roadside beacons S02-B08 X22-E06C
navigational systems T07-A05C S02-B08 X22-E06
noise cancellation Q17-N W04-V07 X22-X08
non-engine related fuzzy control X22-Q
non-engine related measurements X22-X06
odometer S02-B12A X22-E05
off-board battery charger X16-G01 X22-F01A2
oil contamination instrumentation X22-E01C
oil level instrumentation X22-E01C
oil pressure instrumentation X22-E01C
on-board tyre inflator X22-X09
optical anticollision system W06-A06H1A W06-A06H1K X22-J05C
optical parking aids W06-A06H1A X22-J05C
parking aid X22-J05
parking brake Q18-A X22-C02A
parking-aid lidar system W06-A06H1A W06-A06H1K X22-J05C
parking-aid radar system W06-A04H1A W06-A04H1K X22-J05A
parking-aid sonar system W06-A05H1A W06-A05H1K X22-J05B
passenger compartment noise reduction Q17-N W04-V07 X22-X08
passenger display X22-J15
passenger protection Q14-C X22-J07 X22-J11
pedal position adjustment X22-X12
perfume dispenser X22-J02E
police Q19-H01 X22-P10
police radar surveillance detector W06-A04E3C X22-E08
pollution reduction Q17-E09 Q51-J02 X22-A03J X22-A07
position monitoring (external) T07-A05
power measurement S02-F03B
power steering Q18-B06 X22-C05A
power train Q13-A X22-G
chainrings Q13-A17
chains Q13-A18
clutch Q13-A03
control Q13-B X22-G03
cooling Q13-A22 X22-G07
cranks Q13-A15
differential Q13-A09
drive shaft Q13-A07
flywheel Q13-A04
four-wheel drive Q13-A11 X22-G05
gearbox Q13-A24
gearing Q13-A24
lubrication Q13-A22 X22-G07
mountings Q13-A26
pedals Q13-A16
power take off (PTO) Q13-C X22-G
sprockets Q13-A17
retarder Q13-A05
torque converter Q13-A02
power/torque control X22-A03D
presence detection T07-A01B
presence detection for traffic signal control T07-C03A
radio/cassette player mounting W03-B W04-L05A X22-X02B
rain sensor S03-D02B1 X22-X06E
rearview mirror Q14-E X22-J04
recreation type Q19-F X22-P08
recycling Q16-R X25-W04
registering or indicating T05-G01
remote starting of accessory X22-J10
remote-controlled locking X22-D01A1
rental, hiring, sharing X22-U
reversing light X22-B02R
road friction sensor X22-X06C
road toll device T07-A03E X22-X07
running boards Q14-I X22-J19
salvaging Q16-R
sanitation Q14-L
seat Q14-A P26-A01F X22-J03A
seat air conditioner X22-J03A5
seat belt Q14-C01 X22-J03B
seat belt automatic release X22-J03B1

seat belt inertia sensor S02-G03
X22-X06B
seat belt retraction X22-J03B1
seat cooling X22-J03A5
seat heating X22-J03A1
seat heater control X22-J03A1
seat occupation sensor S03-C06
X22-X06D
seat position control X22-J03A
seat with integral massaging device X22-J03A2
sensors X22-X06
engine based X22-A05
service-need display X22-E10
servicing Q16-A02
X22-X16
side/tail light X22-B02X
signalling X22-B
slowing indicator light X22-B02A1
solar cell panel X15-A02C
X22-F03
spark plug X22-A01E1
spark plug electrode X22-A01E1A
spark plug insulator X22-A01E1C
spark plug manufacture X22-A01E1E
speech recognition and synthesis W04-V
X22-L
speed control using drive-by-wire X22-A03B2
speed control using electronic throttle
X22-A03B2
speed control using servomotor
X22-A03B2
speed indicator X22-E05
speed measurement (external) T07-A01A1
stabiliser Q14-C07
stands Q14-J
X22-J20
starting motor (see also X11) X22-A04
steps Q14-I
X22-J19
steering Q18-B
X22-C05
automatic steering Q18-B07
X22-C05B
four-wheel steering Q18-B09
X22-C05A1
power assisted Q18-B06
X22-C05A
steering column Q18-B01D
steering rack Q18-B02
steering wheel Q18-B01A
steering angle sensor X22-X06H
steering-mounted controls X22-C05C
steering-mounted display X22-C05C
steering-mounted switch X22-C05C
steering-related instrumentation X22-E02D
stop-start control X22-A03E
sun roof Q17-A08
X22-J08
sun screen X22-J09
sun visor Q14-D
X22-J08
supercharger Q51-H05A
X22-A14
supercharging control X22-A03C
superstructure Q17-A02
suspension Q12
X22-M01
springs Q12-B01
dampers (see also vehicle damper)
Q12-B02
linkages Q12-B07
lubrication Q12-B15
mountings/brackets Q12-B06
suspension control X22-M03
Q12-B09
switch X22-N
tachograph T05-G01
X22-E05
tachometer S02-B12A
X22-E05
taximeter T05-C03
T05-G01
X22-E05
telecontrol W05-D07D
telephone W01-C01D3B
X22-K11
testing S02-J02
X22-X20C
theft alarm W05-B01
X22-D03A
theft monitoring X22-D03C
toy W04-X03E1
toll system T05-D02
T07-A03E
X22-X07
tow bar Q11-C01
towing gear Q11-C02
traction control braking X22-C02C1
traction control by engine power/torque regulation X22-A03D1
traction control using transmission regulation X22-G03B
traffic management radar W06-A
X22-E11
transmission control Q13-B
X22-G03
transmission control using computer T01-J07D1A
X22-G03
transmission, hydrostatic Q13-A01X
transmission NVH control Q17-N
X22-G03N
transmission-related instrumentation X22-E02C
transmission systems – see power train
Q13
X22-G
transmission, torque converter Q13-A02
trim Q17-A10
turbocharger Q51-H05A
X22-A14
turbocharging control X22-A03C
turning indicator X22-B02D
turning light X22-B02A
TV camera for all-round view W02-F01E
W04-M
X22-E09A
tyre Q11-B
vehicle specific clothing Q14-C16
warning light X22-B02X
X26-U07
waste heat recovery X22-A17
weighing S02-D02C
wheel Q11-A
wheel slip sensor S02-G
X22-X06A
wheel speed sensor S02-G01
X22-X06A

wheels-related instrumentation X22-E02B
window Q17-A07
X22-X05
window winder X22-H
window winder control X22-H01
Vehicle continued
window winder motor V06-M
X22-H02
window with light transmission control
X22-X05
windscreen demister X22-J02A
X25-B01C1C
windscreen wipers Q14-N
X22-J01
windscreen wipers control X22-J01
windscreen wipers motor V06-M
X22-J01
wing mirror Q14-E
X22-J04
wiring harness V04-V02
X12-D03M
X22-X01B
yaw sensor X22-X06J
Vehicle aerial mounting W02-B07D
aircraft W02-B07D
W02-B08F5
W06-B01B7
land vehicle W02-B07D
W02-B08F1
X22-X02A
missile W02-B07D
W02-B08F
W07-A03A
ship W02-B07D
W02-B08F2
W06-C01B7
spacecraft W02-B07D
W02-B08F7
W06-B03C
Vehicle, anti-collision system T07-E01
on-board aspect X22-J05
roadside aspect T07-E01
Vehicle (land) connector V04-M30C
X22-X01A
Vehicle control system T01-J07D
geographical information systems T01-J07D3A
guidance T01-J07D3
multiplex control system T01-J07D1B
X22-K03
transmission T01-J07D1A
X22-G03
vehicle microprocessor system T01-J07D1
Vehicle damper - see Vehicle suspension
Q12
X22-M
Vehicle, position
driver information display T07-A05C
X22-E06
indication using roadside beacons T07-A05C
X22-E06C
updating driver display X22-E06F
T07-A05C
Vehicle safety systems Q14-C
active head restraint X22-J03A3A
airbag Q14-C02
X22-J07
automated emergency signalling X22-J11A
collapsible steering column Q18-B01D5
fire extinguisher X22-J11
flip-up roll-over bar Q14-C06
X22-J11
inflatable occupant restraint Q14-C02
X22-J07
curtain airbag Q14-C02C2
dashboard mounted airbag Q14-C02C3
for protecting driver Q14-C02A1
for protecting front seat passenger
Q14-C02A2
for protecting rear seat passengers
Q14-C02A3
inflatable knee bolster Q14-C02C1
protective clothing Q14-C16
roof mounted airbag Q14-C02C4
side airbag Q14-C02C2
steering wheel mounted airbag Q14-C02C3
passenger safety system X22-J11
pedestrian protection system Q14-C15
X22-J11B
portable warning triangle T07-X
X22-B03E
seat belt pretensioner X22-J03B1
vehicle specific clothing Q14-C16
warning of approaching emergency vehicle
X22-E14
Vehicle shock absorber - see Vehicle suspension
Q12-B02
X22-M
Vehicle testing X22-X20C
braking S02-J02B
crash/impact testing S02-J02F
electrical system S02-J02E
electric vehicle X21-X20
engine S02-J01A
engine diagnostics X22-A05N
steering S02-J02A
suspension S02-J02A
toe-in/camber setting Q12-B04
toe-in tests (see also Alignment checking)
S02-J02A
transmission S02-J02X
S02-J03A
tyre performance S02-J02A
using crash dummy S02-J02F1
vehicle diagnostics X22-X06N
Vehicle, transporting special loads
loading/unloading arrangements Q15-A
transporting prefabricated building Q15-B01
transporting money/valuables Q15-B02
transporting reels Q15-B03
transporting animals/meat Q15-B04
transporting refrigerated goods Q15-B05
X27-F
transporting bottles Q15-B06
transporting vehicles Q15-B07
tanker vehicles Q15-B08
spraying vehicles Q15-B09
with living accommodation Q15-B10
transporting mixed concrete Q15-B11
transporting long loads Q15-B12
transporting persons Q15-B13

on-board weighing Q15-C
load securing equipment Q15-D
transporting tanks/cylinders Q15-B30

Vehicle-type X22-P
agricultural Q19-G
X22-P09
X25-N01A
air -see Aircraft Q25-P
W06-B
air cushion vehicle Q17-A15
Q24-P10
ambulance Q19-H03
X22-P10
amphibious Q19-R01
X22-P12
autonomous
motor vehicle X22-P15
electric vehicle X21-A01L
bicycle Q19-A
X22-P01
bus/coach Q19-C01
X22-P05A
caravan/trailer tent Q19-F01
X22-P08
camper van/motorhome Q19-F02
X22-P08
commercial Q19-C
X22-P05
construction Q19-E
X22-P07
X25-D01
X25-U
driverless
motor vehicle X22-P15
electric vehicle X21-A01L
electric motor/IC engine prime movers
Q19-Q
X21-A01D
X22-P04
electrically-driven – see **Electric propulsion**
Q19-P
X21-A01F
emergency services Q19-H
X22-P10
external combustion X22-P03
fire engine Q19-H02
X22-P10
fore car Q14-G
forklift truck Q19-C06
X22-P05F
X25-F05A
forklift truck, electric X21-A01B
gas turbine Q52-A
X22-P03
hearse Q19-C07
hybrid Q19-Q
X21-A01D
X22-P04
lorry/ truck Q19-C02
X22-P05B
marine - **see Ship** Q24-P
W06-C
military Q19-D
W07-X01
X22-P06
moped Q19-B
X22-P02
motorcycle Q19-B
X22-P02
police Q19-H01
X22-P10
quad bike Q19-F
X22-P02
racing car Q19-F03
recreation Q17-F
X22-P08
refuse collection vehicle Q19-C04
X22-P05R
road cleaning vehicle Q19-C05
X22-P05H
robotic X25-F05A
sidecar Q14-G
snowmobile Q17-F04
X22-P08
soft-top; cabriolet Q19-S
space -see Space vehicle Q25-S
W06-B03
tank – military Q19-D
W07-X01
X22-P06
taxi Q19-C03
X22-P05C
towed trailer Q19-J
X22-P11
tracked vehicle Q17-A14
Q19-X
tricycle Q19-A
X22-P01

Velocity modulation in TV CRT display W03-A08A1G

Velocity of light measurement S03-A09

Vending machine T05-H
beverage T05-H06
cigarette, confectionery T05-H04
constructional details T05-H08A
control systems T05-H08C
reverse vending T05-H02E
with cooking facilities T05-H04A
with refrigeration facilities T05-H04B

Vending machine mechanism
actuated by banknote T05-H02A
actuated by magnetic card T05-H02C5A
actuated by optical card T05-H02C5B
actuated by record carrier, card T05-H02C
actuated by smart card, IC card T05-H02C5C
coin actuated T05-H01
token actuated T05-H02B

Venetian blind X27-T

Ventilating, semiconductor package U11-D02

Ventilation fan X27-E01B1

Ventilation, electric machines V06-M13
X11-J06

Ventilator X27-E01B1
for medical use S05-G02E
for motor vehicle cabin Q14-M
X22-J02D
with medication S05-M04

Vermin/insect extermination, repulsion or trapping X25-X02
arable insecticide spraying X25-N01
domestic insecticide spraying X27-X

non-domestic use X25-X02
Version Management
for software T01-F05F
during development T01-J20B2
Vertical magnetic recording
magnetic head T03-A03D
record carrier per se T03-A01D
Vertical MOSFET - see Field effect transistor U12-D02A9
Vessel, discharge tube (general)
conductive coatings V05-M05F
manufacture - see Discharge tube mfr. V05-L03
optical coatings V05-M05F
windows V05-M05E
Vessels, for measuring volume S02-C05
Vessels, plasma display
conductive coating V05-A01D1C
internal spacing elements V05-A01D3
optical coatings V05-A01D1E
seals for V05-A01D1A
Veterinary S05-V
tools and instruments P32-A20
transducers (application) V06-V04K
Vias, semiconductor device interconnection mfr. U11-C05G2C
Vibrating alerting device
general W05-A01A1
pager W05-A01A1
W05-A05C1A
telephone set W01-C01F1F
Vibrating tube densimeter S03-F01X
Vibration
control T06-B12
control for semiconductor lithography U11-C04C5
damping for aircraft Q25-N
damping for electric vehicle Q17-N
Q19-P
X21-N
damping for instruments S01-J09
damping for ship Q24-N
damping for train Q21-N
damping for recording equipment T03-L05N
damping for vehicle engine Q17-N
X22-A12
damping for vehicle passenger compartment X22-X08
detectors for measurement S02-E02
engine vibration control X22-A03X
generator circuits (small scale electromechanical) V06-V02S
V06-V04C
generator, general P43-A01
generator, industrial scale X25-L05
generator, small scale V06-V04C
measurement methods S02-E01
motors, vibration wave type V06-M06D1
sensors, electromagnetic induction type V06-V01A
V06-V04G
sensors, piezoelectric V06-V01B
V06-V04G
testing of structures S02-J08
vehicle transmission NVH control X22-G03N
Vibrator, electromechanical
circuits (small scale) V06-V02S
V06-V04C
industrial scale X25-L05
small scale V06-V04C
Video
blanking signal generators W04-M05
camera - see Video camera W04-M01
compact disk player W04-C10A3
conference equipment and systems W02-F08A
digital versatile disk player/recorder W04-C10A2
W04-C10A3
file server W02-F10A
W02-F10K
W04-K05A
games T01-J30B
W04-X02C
generators W04-M
magnetic disk recorder/player W04-B14
magnetic recording heads T03-A03
magneto-optical disk player W04-D20A
on-demand (VoD) system W02-F10A1
optical disk player W04-C10A3
pattern generators W04-M07
recording of X-ray S03-E06H5D
recording of X-ray, medical S05-D02A5B
signal processing (general) - see **Video signal processing** W04-P
signal processing for recording - see **Video recording signal processing** W04-F
signal processing in TV receiver W03-A04
switching equipment W04-N05B5
tape recorder - see **Video tape recorder** W04-B10
telephone set W01-C01G4
W02-F08B3
telephone system W01-C05B1E
W02-F08B1
Video camera W04-M01
acceleration transducer W04-M01D2X
W04-M01D7
aperture control W04-M01D5C
aperture correction W04-M01D6
W04-P01E5
audio aspects W04-M01M
automatic focus control W04-M01D5D
back-light compensation W04-M01D5B
battery charging W04-M01P5A
X16-G
battery power supply W04-M01P5
X16
beam splitter W04-M01C5
calibration W04-M01D2J
camera-recorder (VTR) W04-B10
W04-M01K
carrying case (portable camera) W04-M01G5
character/subtitle generators W04-M01D4
colour registration control W04-M01D9
colour separation filter W04-M01C3A
condition monitoring W04-M01D2J
constructional details W04-M01G
control circuits W04-M01D
dark current compensation W04-M01B7
W04-M01D6A
W04-P01H1
detachable lens W04-M01C1D

dithering imager for enhanced resolution W04-M01B8A
document imaging arrangement W04-M01J
electronic shutter W04-M01B5A
W04-M01D5C
electronic still picture W04-M01B1
electronic zooming W04-M01D5E
W04-M01D6
W04-N05C3
exposure condition evaluation W04-M01D5A
exposure control W04-M01D5
external optics W04-M01C6
external optics for video telephone eye contact W01-C01G4
W02-F08B3
W04-M01C6
eye-gaze direction determination W04-M01D2G
face/facial expression detection W04-M01D2F
filter, optical W04-M01C3
fixed mounting for camera W04-M01G7A
fixed pattern noise suppression W04-M01B7
W04-M01D6
W04-P01H1
flash W04-M01H5
flash control W04-M01D5H
W04-M01H5
X26-C01A
focus control W04-M01D5D
focus detection W04-M01D2E
focussing by image sensor movement W04-M01B8B
focussing by lens driving W04-M01C1B
grip W04-M01G1
GPS information recording W04-M01D2X
GUI-based control W04-M01D1C
hand tremor compensation W04-M01D7
housing W04-M01G1A
image processing function control W04-M01D6
imaging still pictures W04-M01J
interchangeable lens W04-M01C1D
interfacing W04-M01D8
interfacing with PC W04-M01D8
W04-K08
internal constructional details W04-M01G1B
internal wiring details W04-M01W
IR W04-M01E1
IR-cut filter W04-M01C3C
iris W04-M01C8
iris control W04-M01D5C
lamp for scene illumination W04-M01H1
lens (e.g. microlens array) integral with image pickup W04-M01B5
W04-M01C1A
lens mounting W04-M01C1
W04-M01G1B
lens per se W04-M01C1A
lens positioning for focussing W04-M01C1B
lens positioning for zooming W04-M01C1C
lens system W04-M01C1
lens, variable power W04-M01C1E
light beam projector indicating field of view W04-M01D2C
light metering W04-M01D2A
light source W04-M01H
light source control W04-M01D5H
W04-M01H
liquid crystal lens (variable power) W04-M01C1E
mechanical scanning W04-M01E5
mechanical scanning in single direction W04-M01E5A
mechanical scanning with main- and sub-scanning W04-M01E5C
medical imaging (non-visible radiation) S05-D
W04-M01F
mirror W04-M01C5
monitoring camera condition W04-M01D2J
motion compensation W04-M01D7
motor drive for focussing W04-M01C1B
motor drive for zooming W04-M01C1C
movable mounting for camera W04-M01G7C
multiple camera systems W04-M01V
neutral density filter W04-M01C3D
nuclear imaging W04-M01F3
operator controls W04-M01D1
operator hand tremor correction W04-M01D7
optical element compensating motion W04-M01C9
W04-M01D7
optical filter W04-M01C3
optical filter integral with image pick-up device W04-M01C3E
optical filter removing specific wavelengths W04-M01C3C
optical filter separating colours W04-M01C3A
optical system electronic distortion correction W04-M01D6
W04-N05C3E
optical system external to camera per se W04-M01C6
opto-mechanical scanning (see 'mechanical scanning' entry also) W04-M01E5
panoramic camera W04-M01S
polarizing filter W04-M01C3G
power supply, battery W04-M01P5
power supply, mains W04-M01P1
range finding W04-M01D2C
registration control (colour) W04-M01D9
remote control W04-M01D1A
removable lens W04-M01C1D
sensing arrangements W04-M01D2
shake correction W04-M01D7
shake sensing (based on image analysis) W04-M01D6
W04-M01D7
W04-P01A1
shake sensor (transducer) W04-M01D2X
W04-M01D7
shoulder mount W04-M01G7
shutter W04-M01C7
shutter operation control W04-M01D5C
slide viewing adaptor S06-B06B
W04-M01J
SLR optical system W04-M01C5
smear correction W04-M01D6
W04-P01H3
solid state W04-M01B
solid state image pick-up element W04-M01B5
stereoscopic image W04-M01L
still picture imaging W04-M01J
subject size measurement from exposure control data W04-M01D5X
subject tracking W04-M01D2C
supports W04-M01G7
synchronising signal generator W04-M01D2M
W04-M05

testing W02-F04A5
W04-M01D2J
touchscreen W04-M01D3E
tracking W04-M01D2C
tripod W04-M01G7
tube arrangements W04-M01A
variable power lens W04-M01C1E
vehicle exterior view X22-E09
video signal processing W04-M01D6
W04-P
viewfinder W04-M01D3
viewfinder display W04-M01D3A
viewfinder display drive circuitry W04-M01D3C
viewfinder optics W04-M01C9
W04-M01D3
white balance control W04-M01D6
W04-P01D1
wiring details, internal W04-M01W
X-ray W04-M01F1
zooming and magnification (electronic) control W04-M01D5E
W04-M01D6
W04-N05C3
zooming and magnification (optical) control W04-M01D5E

Video disk
magnetic disk per se T03-A01C1
T03-A01C8B
magnetic disk recorder/player W04-B14
magnetic recorder/player in still picture camera W04-B14A
W04-M01B1A
magneto-optical recorder/player W04-D20A
optical recorder/player W04-C10A3

Video game W04-X02C
payment freed, e.g. arcade game T05-H05E
W04-X02A
W04-X02C

Video Player, general W04-E30A5

Video production equipment W04-N05G1

Video projector W04-Q01
cabinet W04-Q01H1
cathode ray tube type W04-Q01A
construction W04-Q01H
convergence control (CRT type) W03-A08A5C
W04-Q01A
cooling W04-Q01H5
deformable mirror device (DMD) W04-Q01B3
direct retinal projection, general display W04-Q01L
W05-E07
direct retinal projection, TV receiver display W03-A08E7A
W04-Q01L
direct retinal projection, virtual reality display W04-Q01L
W04-W07E1A
filter, colour separation W04-Q01E3A
filter, IR-blocking W04-Q01E3C
focussing W04-Q01E1A
head-up display application W04-Q01K
internal construction W04-Q01H5
keystone correction (image processing) W04-N05C3E
W04-Q01J
laser light source W04-Q01B1
LED light source W04-Q01B2
lens W04-Q01E1C
light source W04-Q01B7
light valve type W04-Q01B
light valve type with laser source W04-Q01B1
mirror system W04-Q01E5
mounting W04-Q01H1
novel light valve W04-Q01B5
optical system W04-Q01E
panoramic projection system W04-Q01P
power saving, power supply W04-Q01J7
prisms W04-Q01E5
remote control W04-Q01J3
scanning systems W04-Q01E7S
screen, non-planar W04-Q01F5
screen, reflective W04-Q01F3
screen, transmission W04-Q01F1
screen, volumetric W04-Q01F5

Video recording
magnetic record carriers T03-A01C8B
multiple channel recording W04-F01P
multiple viewing angle aspects W04-E20K
signal processing - see **Video recording signal processing** W04-F

Video recording equipment
commercial message recording prevention W04-E04C5C
editing W04-H05E
electronic still picture camera W04-M01B1
hard copy systems W04-D10
hard disk recorder W04-B14C3
indexing W04-H01
integrated with telephone W01-C01P6J
magnetic floppy disk W04-B14A
W04-M01B1A
magnetic hard disk W04-B14C3
magneto-optical disk W04-D20A
optical disk W04-C10A3
set-top box video recorder W03-A16E1
solid state video recorder W04-P01C8
tape - see **Video tape recorder** W04-B10
testing W04-J07
thumbnail indexing W04-H01C5
time code recording W04-H01A
VCR/VTR - see **Video tape recorder** W04-B10

Video recording signal processing W04-F
additional picture information processing W04-F01K
AGC W04-F01A5
amplitude compression W04-F01A5
antiduplication using recorded signals W04-F01L
blanking interval signal recording W04-F01K
clamping W04-F01A5
W04-F01X
colour synchronising W04-F01D3
compression by coding W04-F01F
copy marking W04-F01L3
copy prevention W04-F01L1
crispening circuits W04-F01B1
demodulation W04-F01A1A
drop-out compensation W04-F02A
dynamic range control W04-F01A5
equalisation W04-F01B
error correction W04-F01F5
folding W04-F01A1

HDTV signal processing W04-F01H5
head-switching noise reduction W04-F01E1
inversion phenomenon compensation W04-F01E
luminance/chrominance separation W04-F01D1
memory circuit applications W04-F01M
modulation W04-F01A1A
movement detection W04-F01F1
movement-responsive compression W04-F01F1
multistandard signal processing W04-F01H
noise reduction W04-F01E
peaking circuits W04-F01B1
processing involving memory W04-F01M
processing specific to colour video W04-F01D
signal coding W04-F01F
signal transformation W04-F01A1
skew correction W04-F02B
standards conversion W04-F01H3
standards recognition W04-F01H1
synchronising signal processing W04-F01C
time-base error correction (TBC) W04-F02B
transcoding W04-F01H3A
VTR applications (general) W04-B10B

Video signal coding
3-dimensional transforms W04-P01A4N
coding appts. W04-P01A
DCT W04-P01A3
detecting and correcting errors W04-P01A6
fixed/variable rate conversion, hybrid encoding W04-P01A4F
fixed/variable rate conversion, transform encoding W04-P01A3F
fractal W04-P01A8
High Efficiency Video Encoding (HEVC) W04-P01A4
hybrid W04-P01A4
JPEG 2000 W04-P01A3
motion compensation, hybrid coding W04-P01A4C
motion compensation, predictive coding W04-P01A5C
motion compensation, transform coding W04-P01A3J
motion detection/estimation, hybrid coding W04-P01A4A
motion detection/estimation, predictive coding W04-P01A5A
motion detection/estimation, transform coding W04-P01A3G
MPEG W04-P01A4
multiple video stream W04-P01A2
novel transform aspects, hybrid coding W04-P01A4E
novel transform aspects, transform coding W04-P01A3A
predictive W04-P01A5
predictive and transform coding W04-P01A4
quantisation, hybrid coding W04-P01A4G
quantisation, transform coding W04-P01A3C
reducing artefacts W04-P01A4L
run length, variable length encoding, hybrid coding W04-P01A4J
run length, variable length encoding, transform coding W04-P01A3E
scalability arrangements W04-P01A4S
sub band W04-P01A7
subsampling W04-P01A7
transcoding W04-N05A1
transform W04-P01A3
transform coding motion detection W04-P01A3G

Video signal processing
aperture correction W04-P01E5
clamping W04-P01K
coding - see Video signal coding W04-P01A
colour balance/temperature control W04-P01D3
contour correction W04-P01E3
dynamic range control W04-P01E8
error concealment W04-P01F3
fixed pattern noise suppression W04-M01B7 W04-M01D6 W04-P01H1
frame store (per se) W04-P01C1
frame store circuits W04-P01C5
gamma correction W04-P01E1
image manipulation W04-N05C3
imager characteristic correction W04-P01H
luminance/chrominance separation W04-P01L
movement detection W04-P01A1
noise reduction W04-P01F1
non-visible spectrum imaging W04-P01B
phase shift compensation W04-P01E7
recording - see Video recording signal processing W04-F
time shifting W04-P01N
TV camera W04-M01D6 W04-P
TV receiver - see TV receiver video signal processing W03-A04
video camera W04-M01D6 W04-P
white balance control W04-P01D1

Video tape recorder W04-B10
antitheft alarm W04-B10C W04-J01
camcorder W04-B10 W04-M01K
cassette changing T03-E01B W04-B10A
commercial message recording prevention W04-B10C W04-E04C5C
construction W04-B10D
control W04-B10C
digital (DVTR) W04-B10G
dual cassette deck W04-B10K
head T03-A03
head and tape transport W04-B10A
head cleaning T03-A04B3 W04-B10A
helical scan system details - see **Helical scan recording** T03-N02 W04-B10A
high-speed operation W04-B10 W04-E20A
interfacing W04-B10C
jog wheel W04-J05 W04-B10A W04-B10C
modulator W04-B10C W04-K06
power supplies W04-B10C
remote control W04-B10C W04-E04A
reverse mode operation W04-B10 W04-E20R

SCART connector W04-B10C W04-K07
self-testing systems W04-B10C W04-J07C
signal processing W04-B10B
simultaneous play and record mode (different sections) W04-E20M
slow-speed operation W04-B10 W04-E20C1
still-picture operation W04-B10 W04-E20C5
tape counter W04-B10C W04-H03
time-lapse operation W04-B10 W04-E20C3
variable speed operation W04-B10 W04-E20
VCR PLUS® programming W04-B10C W04-E04C1
VPS programming W04-B10C W04-E04C5

Video telephone W02-F08B
apparatus W01-C01G4 W02-F08B3
system W01-C05B1E W02-F08B1

Video-on demand
receiver aspects W03-A16C5A
system aspects W02-F10A1
video-on-request W02-F10A1E

Viewer (slide, film) S06-B06B

Viewfinder display
photographic, camera S06-B01C
video camera W04-M01D3

Virtual circuit or path W01-A03B
virtual machines T01-M09

Virtual memory T01-H03A

Virtual Private Network (VPN) W01-A06B7G

Virtual reality W04-W07E
acoustic aspects W04-W07E3
computer data processing aspects T01-J40 W04-W07E
computer image generation T01-J10C4A W04-W07E
display W04-W07E1
head-mounted display W04-W07E1A
interactive broadcast network aspects W02-F10G W04-W07E
mechanical aspects W04-W07E5
tactile aspects W04-W07E5
video aspects W04-W07E1

Viscometer S03-F03
measuring flow rate S03-F03X
moving body in materials S03-F03A
vibratory S03-F03A

Viscosity
control T06-B07
measurement (see also Viscometer) S03-F03

Visible signalling W05-A03
personal calling arrangements W05-A03A
signalling arrangements W05-A03A

Visible spectroscopy - see Spectrometry

Vision detector for TV receiver W03-A03C5

Visitor location register (VLR) W01- E01C1

Viterbi error correction W01-A01B2A U21-A06C1

Vivarium X27-H01
lighting (application) X26-U99

VLR (visitor location register) W01-E01C1

VLSI-see Large scale integration U13-C06

Voice coding - see Speech signal coding W04-V05G

Voice mail W01-C02B7C

Voice over IP (VoIP)
telephone set W01-C01G6E
telephone system W01-C05B4C

Voice packet switching W02-C06 W02-K03

Voice recognition/analysis
applications W04-V04A
comparing with reference W04-V04A8
determining emotional status of speaker W04-V04A4
determining gender of speaker W04-V04A3C
determining presence of speech/voice W04-V04A1
identifying speaker W04-V04A3A
methods W04-V01
speech-to-text system W04-V04A6
voice activated control, equipment W04-V04A5
voice activated control, telephone W01-C01Q4 W04-V04A5
voice activated control, TV set W03-A02C5L W04-V04A5

Voice synthesis
applications W04-V04C
methods W04-V02

Voice-coil motor V06-M04A
control V06-N12

VoIP (telephony) W01-C05B4C

Volleyball P36-A01 W04-X01K1V

Voltage
breakdown testing S01-G03
capacitive measurement S01-D01D3
dependent resistors V01-A02B
phase angle, measuring S01-D04

Voltage measurement S01-D01
by AC/DC conversion S01-D01C5
by beam deflection S01-D01D7
by DC/AC conversion S01-D01C1A
capacitive voltage transformer S01-D01D3
CVT S01-D01D3
digitally S01-D01C1B
effective value S01-D01A1
indicating AC waveform zero-crossing point S01-D01B5
indicating presence S01-D01B1
indirect, inductive/magnetic S01-D01D1
indirect, non-contact S01-D01D
peak S01-D01A3
RMS S01-D01A1
thresholding S01-D01B5
using chopper circuit S01-D01C1A
using current transformer S01-D01D1A
using electrochromic effect S01-D01D5
using electron beam probing circuit S01-D01D7

using electrostatic fields S01-D01D3
using Faraday cup S01-D01D3
using Faraday rotation S01-D01D5
using optical transformation S01-D01D5
using particle beam S01-D01D7
using Pockel's effect S01-D01D5

Voltage multiplier U24-D04E
X12-J04E
U24-D01A
control U24-D04E
X12-J01A
X13-H03B

Voltaic cells
measuring currents/voltages S03-E03B
measuring currents/voltages, due to effects at electrodes S03-E03B1
measuring currents/voltages, due to effects in electrolyte S03-E03B2

Volume control W03-C03C

Volume, capacity measuring S02-C05

Volumetric video projection
projection screen W04-Q01F5
projector W04-Q01P

Volume read memory T01-H01B6A

Vortex flowmeters S02-C01A9

Voting appts. T05-F

VPS
recording equipment control W04-E04C5A
signal processing in recording equipment W04-F01K
transmission system W02-F05C
TV receiver control W03-A10J
W03-A18A
VTR control W04-B10C
W04-B10C
W04-E04C5A

VSELP voice signal coding W04-V05G3A

VTR - see Video tape recorder W04-B10

W

Wafer charging prevention during mfr. U11-C10

Wafer handling U11-F02A1
electrostatic chuck U11-F02A2
jig U11-F02A2
protection during transport U11-F02A1A
storage U11-F02A1
transport U11-F02A1

Wafer identification, semiconductor mfr. U11-C15A

Wafer labelling, semiconductor mfr. U11-C15A

Wafer scale digital circuit U13-C06

Wafer scale integration U13-D05

Wafer scale package U11-D01A8

Walking robot X25-F05A

Walking aids P33-A99

Walking stick
electrical details X27-A02E
manufacture P24-M
non-electrical details P24-A01

Walls – see Buildings, general mechanical construction and structural elements

Wallpaper stripper X27-X

Walsh transform T01-J04B1
computer processing for T01-J04B1

WAP telephone handset W01-C01D3C
W01-C01G6E

Ward-Leonard set X13-H01C9

Wardrobe P25-B

Warehousing, automated - X25-F07

Warping machine X25-T02
control T06-D03C
X25-T02

Wash basin X27-A02A4
for aircraft Q25-S07A
for ship Q24-B01C2
for train Q21-J04
for vehicle Q14-L

Washing machine X27-D01
clothes X27-D01A
combined washer/drier X27-D01C
dish X27-D01B

Washing machine - clothes washers X27-D01
X27-D01A
component parts X27-D01A3
casings X27-D01A3C
dispensing systems X27-D01A3D
drive arrangements X27-D01A3B
liquid management systems X27-D01A3E
providing mechanical energy X27-D01A3A
vibration damping systems X27-D01A3F
water heaters X27-D01A3E
control systems X27-D01A5
machine types X27-D01A1
front loading horizontal axis X27-D01A1B
tilt axis X27-D01A1D
top loading horizontal axis X27-D01A1C
vertical axis X27-D01A1A

Washing machine - dishwashers X27-D01
dishwashers X27-D01B
component parts X27-D01B3
casings X27-D01B3C
dispensing systems X27-D01B3D
drive arrangements X27-D01B3B
drying systems X27-D01B3F
liquid management systems X27-D01B3E
racks X27-D01B3A
soil collection & management systems X27-D01B3G
water heaters X27-D01B3E
control systems X27-D01B5
machine types X27-D01B1
built-in, wheeled X27-D01B1A
drawer type X27-D01B1B

Waste
compactor, domestic X27-K
compactor, industrial X25-W01
electronic component waste decontamination V04-X01G
electronic component waste disposal V04-X01G
incinerator, domestic X27-K
incinerator, industrial X25-W01
PCB waste decontamination V04-R16
PCB waste disposal V04-R16
reprocessing, semiconductor manufacture U11-C15Q
treatment X25-H03
treatment, nuclear X14-D

Waste fuel combustion power generation X15-E
constructional details X15-W
control, monitoring & testing X15-V

Waste heat – power generation from – X15-H
constructional details X15-W
control, monitoring & testing X15-V

Watch
acoustic time indication S04-B05
alarm, in electronic type S04-B05
alarm, in mechanical type S04-A02X
antimagnetic shielding S04-A04A1
balance S04-A01
battery S04-B01A X16
bearings, framework, and calipers S04-A05
case S04-A04
casing, for electrical type S04-B09
clock/watch housing S04-A04A
date, local time, or tide indication S04-A02B
electrical aspects S04-B
electrical winding S04-B01A
electro-optic display S04-B04A
electronic display S04-B04
escapement S04-A01
glass S04-A04
hands, dial, or drum S04-A02A
illumination, in mechanical type S04-A02X
locking bar S04-A03
mainspring S04-A01
maser, laser oscillator S04-B02X
materials and manufacture S04-A04B
mechanical aspects S04-A
mechanical construction aspects S04-A04A
mechanical drive mechanism S04-A01
motor driven S04-B01B
musical animation S04-B05A
oscillator S04-B02
parts S04-A
power supply S04-B01A
quartz oscillator S04-B02B
radio transmission setting S04-B03 S04-B06
setting, for electrical type S04-B03
spring S04-A03
tools for manufacturing S04-D
watch straps S04-A04A P23-C02
watchmaking tools S04-D
water-proofing S04-A04A2
winding S04-A03

Watchdog monitoring, computing T01-G05A

Water
aerator X25-H03
analysis S03-E14B
consumption meter S02-C02A
desalination plant X25-H03
dispensing and metering T05-H06
distillation/sterilization X25-H03
heating - see Water heating X27-E03
meter, remote reading S02-K08A
pipelines X25-Y02
purification, for semiconductor processing U11-C15B
purification, semiconductor manufacture U11-C15B3
recycling X25-H03 X25-W04
sewage treatment X25-H03
softener, domestic X27-X
swimming pool cleaning X25-X06
turbine X11-B01
wheel X11-B01

Water heating X27-E03
control X27-E03
control using mixer taps X27-E03
dishwasher X27-D01B3F
electric X27-E03A
electric, bed X27-A03 X27-E03A
electric, immersion X27-E03A
electric, Jacuzzi X27-E03A1
electric, sauna X27-E03A1
electric, shower X27-E03A1
electric, through-flow X27-E03A
electric, Turkish bath X27-E03A1
electric, water bed X27-A03 X27-E03A
electric, whirlpool bath X27-E03A1
gas X27-E03
geothermal energy, using - X15-G02
solar powered X27-E03 X15-A
washing machine (clothes) X27-D01A3E

Water-based sports P36-A03 W04-X01K3

Water-proofing clock or watch **S04-A04A2**

Water skiing (sport) P36-A03 W04-X01K3L

Watermarking T01-D02A
audio recording W04-G01L3
broadcast video W02-F05A1
interactive broadcasting W02-F10N1C
video recording W04-F01L3

Wave analysis sound W04-V

Wave power X15-C01
blade details X11-B01
control, monitoring, testing X15-C03
near-shore installation X15-C01B2
off-shore installation X15-C01B2
on-shore installation X15-C01B1
power take-off X15-C01C
turbine details X11-B01
X11-J
wave energy capture method X15-C01A
attenuator X15-C01A2
buoy X15-C01A1
oscillating water column X15-C01A3
overtopping device X15-C01A4
point absorber X15-C01A1
surface following X15-C01A2
terminator device X15-C01A3

Wave soldering X24-A02C
bath X24-A02C

Waveform display S01-C
CRT S01-C01
LCD S01-C09
LED S01-C09
oscilloscopes S01-C01
other types of waveform display S01-C09

Waveguide
aerial W02-B02
optical - see **Optical waveguides** V07-F01
RF - see **Waveguides (RF)** W02-A

Waveguide conductor W02-A01B
circular W02-A01B2B
dielectric W02-A01B3
elliptic W02-A01B2B
flexible W02-A01B2C
grooved W02-A01B2A
hollow W02-A01B2
parabolic W02-A01B2B
ridged W02-A01B2A
several layers W02-A01B4
wire W02-A01B1

Waveguide coupler W02-A02
active W02-A02B
balanced/unbalanced W02-A02A
coaxial-to-stripline W02-A02A3
conjugate W02-A02B1
directional W02-A02B1A
hybrid ring W02-A02B1D
magic-T junction W02-A02B1C
waveguide-to-coaxial W02-A02A1
waveguide-to-stripline W02-A02A2

Waveguide filter (electric) W02-A05
active W02-A05G
bandpass W02-A05K2
cascaded cavity W02-A05A1E
W02-A05B1E
cascaded coaxial W02-A05A1E
cavity W02-A05B1
coaxial W02-A05A1
comb W02-A05A3
combining frequencies W02-A05K7
coupling (internal) W02-A05Q
corrugated W02-A05B2
evanescent W02-A05F
ferromagnetic W02-A05E
harmonic suppression W02-A05K6
highpass W02-A05K3
hollow waveguide W02-A05B
interdigital W02-A05A3
internal coupling W02-A05Q
lowpass W02-A05K1
microstrip W02-A05A2
notch W02-A05K4
separating frequencies W02-A05K7
stripline W02-A05A2
transverse electromagnetic filters W02-A05A
waffle-iron W02-A05B2
YIG W02-A05E

Waveguide phase shifter W02-A06C
using ferromagnetic device W02-A06C2
using semiconductor device W02-A06C1

Waveguide resonator W02-A03A
cavity W02-A03A3
coaxial W02-A03A2
dielectric W02-A03A5
helical W02-A03A1
lecher W02-A03A2
microstrip W02-A03A4
spiral W02-A03A1
stripline W02-A03A4

Waveguide switch W02-A04A
electrical discharge W02-A04A3
ferromagnetic W02-A04A1
mechanical W02-A04A1
semiconductor W02-A04A5

Waveguide RF
absorber W02-A04B
attenuator W02-A04C
auxiliary device W02-A01C
bend W02-A01C1
circular polarisation W02-A06B1
circulator W02-A04F
coaxial line W02-A01A2
conductor - see **Waveguide conductor** W02-A01B
coplanar line W02-A01A
corner W02-A01C1
coupler - see **Waveguide coupler** W02-A02
delay line W02-A03B
dielectric W02-A01B3
Faraday rotator W02-A06B3
filter - see **Waveguide filter (electric)** W02-A05
fin line W02-A01A1
fixed joint W02-A01C2
hollow W02-A01B2
impedance matching W02-A02C
isolator W02-A04E
magnetostatic wave device W02-A06E
manufacture W02-A07
materials for transmission line W02-A01D
materials in general W02-A08C
microstrip W02-A01A3
millimetre wave material W02-A08C1
mode selector W02-A06A

movable joint W02-A01C3
nonlinear noise reduction device W02-A06E
phase shifter - see **Waveguide phase shifter** W02-A06C
polariser W02-A06B
power combiner W02-A02D
power divider W02-A02D
resonator - see **Waveguide resonator** W02-A03A
rotating joint W02-A01C3
several layers W02-A01B4
slot line W02-A01A1
stripline W02-A01A3
switch - see **Waveguide switch** W02-A04A
temperature compensation W02-A08A
Termination W02-A04D
testing W02-A07
transmission line W02-A01
twist W02-A01C1
waveguide component W02-A
window W02-A01C5
wire W02-A01B1

Wavelength, optical, measuring S03-A09
Sights, weapon W07-B01

Weapon aiming systems W07-B05

Weapon fuze detonation W07-C03

Weapon guidance systems W07-A01

Weapon sights W07-B01

Weapons (applications)
civil engineering/construction Q79-U17
military Q79-U31A
self-defence Q79-U31C
sports and leisure Q79-U30
underwater use Q79-U45
vehicle Q79-U03

Weapons, non-electrical Q79

aiming mechanism Q79-T01H

ammunitions Q79-T02
bullet/projectile Q79-T02B
cartridge/shell Q79-T02A
detonator Q79-T02C
propellant/primer Q79-T02C
storage Q79-T02F

armoured vehicle Q79-G03
Q19-D

barrel Q79-T01E

blade/folding blade Q79-T01C

bows/bowstrings Q79-T01A

cross-guard Q79-T01B

constructional details Q79-T

decommissioning of weapons Q79-S

handle Q79-T01B

holder/sheath/scabbard Q79-T01D

magazine Q79-T01F

maintenance Q79-G

manufacture Q79-M

protection for personnel/protective clothing Q79-H01

protection for weapons or equipment Q79-H03
Q19-D

repair Q79-G

safety Q79-T10

training/practice weapons and facilities Q79-E

trigger Q79-T01G

types of weapons Q79-A
blasting Q79-A09
cold weapons Q79-A01
crossbows Q79-A01C
firearms Q79-A02
flamethrowers Q79-A03
hand grenades Q79-A06
launchers Q79-A04
machine guns Q79-A02C
mines/landmines Q79-A05
missiles Q79-A06
sabres, swords, daggers Q79-A01D

Weapons, electrically operated W07-E
firing W07-E01
laser weapon W07-E09
launching systems W07-E05
with electrical propulsion W07-E05A
with plasma propulsion W07-E05A
X14-F04

Weapons, protection W07-F
detection systems for airports W06-B02A
W07-F
for personnel W07-F01
for ships Q24-M03
for weapons or equipment W07-F03
lidar systems W06-A06H2
mine sweeping W07-F05
self defence equipment W07-F01A

Weather
forecasting S03-D05
influencing systems X25-X20
for agricultural purpose X25-N01B
lidar systems S03-D05
W06-A06H2
prediction systems S03-D05
radar systems S03-D05
W06-A04H2
satellite S03-D05

Web-advancing/handling X25-F02
control T06-D08A
X25-F02

Wefting machine X25-T04B1
control T06-D03C
X25-T04B1

Weighing S02-D
applications - see **Weighing applications** S02-D01
appts. -see **Weighing appts.** S02-D

Weighing applications S02-D02
at point-of-sale S02-D02D
T05-L01E
batches S02-D02B
continuous stream of materials S02-D02A
during motion S02-D02C
filamentary or sheet form material S02-D02C
fluids S02-D02C
for person S02-D02X

gases S02-D02C
granular/powdered material S02-D02A
incorporation in vehicles S02-D02X
livestock S02-D02C
materials on conveyor belt S02-D02A
pastes S02-D02C
POS S02-D02D
T05-L01E
sheets S02-D02C
vehicles S02-D02C
wires S02-D02C

Weighing appts. S02-D
balances S02-D01A
calibrating, testing and compensation aspects S02-D07
details, e.g. bearings, beams S02-D09
elastic material balance S02-D01B
electrostatic balancing S02-D01X
fluid action balancing S02-D01X
for vehicles Q15-C
indicating/recording devices for S02-D03
magnetic balancing S02-D01X
price indicating S02-D02D
T05-L01E
strain gauge S02-D01B

Weighing scale S02-D02X
X27-A02A

Weight lifting P36-A06
W04-X01A5

Weld testing, arc X24-B09

Welding
arc stabilising X24-B02A
arc, accessories X24-B04
arc, arrangements or circuits X24-B02
arc, automatic electrodes feeding X24-B03
arc, built-up X24-B01
arc, electrodes X24-B04
arc, generating ignition voltage X24-B02A
arc, goggles X24-B04
arc, magnetic control X24-B02A
arc, percussion X24-B09
arc, power supply U24-D
U24-E
X12-H01C
X24-B02X
arc, protective circuit X24-B02X
arc, protective helmet X24-B04
X27-A02B1
arc, remote control X24-B02X
arc, robot control T06-D07B
X24-B03
X25-A03E1
X25-A03F
arc, seam X24-B01
arc, stud X24-B05
arc, submerged X24-B05
arc, testing X24-B09
arc, using insulating electrodes X24-B09
arc, using shielding gas X24-B06
cable X24-C04
X24-D10
cold welding X24-D08E
connector X24-E
diffusion bonding X24-D08G
electro erosion X24-F
electrode X24-B04
X24-C04
X24-D10
X24-F02
electrolytic X24-D09
electron beam V05-F02
V05-F05A7A
V05-F08E3
X24-D02
exothermic welding P55-C99
explosive welding X24-D08X
flame X24-D05
forge welding X24-D08X
friction X24-D08C
friction stir welding X24-D08C
gas X24-D05
P55-C01
generator (see also X11) X24-G
goggles X24-D10
hot pressure welding X24-D08
induction heating X24-D01
inertia welding X24-D08C
laser beam X24-D03
laser beam, electrical/electronic components X24-D03B
laser beam, metal working X24-D03A
magnetic pulse X24-D08E
mask X24-D10
plasma X24-D05
plastics materials X24-D04
X25-A06
power supply X12-H01C
resistance X24-C
resistance butt X24-C09
resistance, accessories X24-C04
resistance, control X24-C01
resistance, power supply U24-D
U24-E
X12-H01C
X24-C01
resistance, spot X24-C09
roll welding X24-D08
solid state bonding X24-D08
solid state welding X24-D08
P55-C02
recycling of welding components P55-R
repair/maintenance P55-G
robot X25-A03E1
rod X24-B04
X24-C04
X24-D10
X24-F02
P55-D03
transformer X12-C01E
X24-G
ultrasonic X24-D08A

Well logging X25-E02
electromagnetic S03-C02
measuring arrangements X25-E02A
mud pulse telemetry W05-D06M1
non-seismic measurements S03-C07A
optical S03-C04
seismic S03-C01C5
transmission details W05-D07H
W05-D08E
X25-E02A1
using nuclear radiation S03-C03

Well production X25-E03
Wet separation of solids
from liquids P41-E03C
of two or more kinds of solids P41-E03A
Wettability measurement S03-F04
Wheatstone bridge S01-F01
resistance strain gauge S01-F01A
Wheel Q11-A
axle Q11-A05
bearing Q11-A06
castor Q11-A08
cover Q11-A07
disc wheel Q11-A02
hub Q11-A04
manufacture/assembly Q11-A28
nuts Q11-A20
rail-engaging wheel Q11-A17
rim Q11-A03
spoke Q11-A01
traction increasing equipment Q11-A15
Wheelchair
electric S05-G02A
X21-A01A
mechanical P33-A01
Q22-C02
testing, for vehicle S02-J02A
Wheels, mechanical measurement using
S02-A01A
Whirlpool bath X27-E03A1
White goods X27
in general X27-X
with built-in secondary function X27-X03
White noise, generation U23-F05
White space utilization, radio W02-C03G5
Wide area networks (WAN, see also Networks)
W01-A06B5B
Width measurement S02-A10B
using electrical/magnetic method S02-A02
S02-A10B
using mechanical method S02-A01
S02-A10
using optical method S02-A03
S02-A10
using sound or ultrasound S02-A05B
S02-A10
Wiegand wire, pulse generation U22-A02X
Wien bridge S01-F01
WIG welding X24-B06
WIMPS T01-J12
Winch X25-F05
control T06-D08E
X25-F05
Wind-driven advertising signs P85-E01E
Wind instrument P86-A01A
Wind power (electric) X15-B
blade design/material X15-B01C
blade support/damping X15-B01C
control X15-B05
generator X15-B01B
interconnection with utility X12-H01B1
lightning protection system X15-B09
monitoring, testing, control X15-B05
motor X15-B01
off-shore system X15-B03
on-shore system X15-B02
simulation X15-B05
small scale power plant X15-B04
support structure X15-B06
testing X15-B05
turbine X15-B01A
turbine, blade angle control X15-B09
turbine, horizontal-axis X15-B01A5
turbine, large scale X15-B01A1
turbine, microturbine X15-B01A3
turbine, small scale X15-B01A3
turbine, vane X15-B01A
turbine, vertical-axis X15-B01A6
wind turbine generator, electric power generation, application X11-U01E
Wind-photovoltaic energy converters U12-A02A9
Wind-vane S02-H
S03-D01
Winding
clock or watch S04-A03
control, yarn T06-D03B
X25-T01
for magnetic head T03-A03J5
yarn X25-T01
Window
cleaning equipment P28-C01
for building, electrical X25-U01
for building, mechanical Q43-A06
for aircraft Q25-A03A
for ship Q24-A03A
for train Q21-D16
for vehicle Q17-A07
electrochromic X22-X05
winder, electrical X22-H
Window/split screen
icons T01-J12D
widgets T01-J12D
windows T01-J12D
Wire
joining, high power superconducting
X12-G01E1
joining, low power superconducting V04-P10
terminating, high power superconducting
X12-G01E1
terminating, low power superconducting V04-P10
testing (with fault location) S01-G05
testing (without fault location) S01-G12F
waveguide conductor W02-A01B1
Wire bonding for semiconductor devices
U11-E01A
connection details U11-D03A2
wires, metallurgical aspects U11-D03B1
U11-E01A
Wire dot impact printer for computer S06-F01
Wire drawing X25-A02E
control T06-D05A
X25-A02E
Wire stripper V04-P03
X12-G01B

Wireless headphones V06-V01M
V06-V04A4
W03-G05C5A
Wireless link telemetry/telecontrol W05-D06A
Wireless loudspeakers V06-V01M
V06-V04A1
W03-G05C5C
Wireless microphone V06-V01M
V06-V04A2
W04-S05C1
Wireless transducer, electromechanical V06-V01M
Wiring
for aircraft W06-B01C1
for computer equipment T01-L09
for ship W06-C01C1
for train X23-A09
for vehicle X22-X01B
harness manufacture V04-V02
X12-D07D
harness, electronic equipment V04-T01A
X12-D03M
harness, per se X12-D03M
loom V04-V02
loom, tie V04-V02
machine, general circuit manufacture V04-V02
manual, general circuit manufacture V04-V02
Wiring for integrated circuit
3-D interconnections U11-D03C3B
grounding U11-D03C1A
high density U11-D03C2
layout U11-D03C1A
noise reduction U11-D03C3A
opto-electronic U11-D03C3B
Wiring harness - see Wiring
Wood P63
analysis S03-E14D7
constructional details P63-T
planing P63-A05
recycling/recovery P63-R
routing P63-A09
sawing, cutting P63-A03
X25-A03
timber industry X25-X01
turning P63-A10
wood drying X25-G
working P63-A
X25-A10
bench P63-T20
tools P63-T
Word processing (WP) T01-J11A
dictionary T01-J11A1
grammar-checking T01-J11A1
Work
measurement of, S02-F02
special purpose measurement of S02-F03B
Working
clay P64-C
gem stones P64-E50E
glass X25-A05
plastics X25-A06
rock P64-E50A
rubber X25-A07
stone-like materials P64-E
wood P63
X25-A10
Wound capacitor - see Capacitor V01-B03C1
WP T01-J11A
Writer or reader for smart card T04-K02
Writing, drawing instruments P77
constructional details P77-T
core materials P77-B
ball point pens P77-A02
felt-tip pens P77-A03
fountain pens P77-A01
manufacture P77-M
pencils P77-A04
stylus P77-A05
Writing into digital static stores U14-A07
WWV time signal receiver S04-B06
WWW T01-N

X

X-ray
- analysis S03-E06
- cassettes S03-E06H5
- contrast media, medical S05-D02A7
- control of generators V05-E02
- crystallography S03-E06C
- diagnosis for dentistry S05-E03
- diagnosis, medical S05-D02A
- dose control V05-E02C5C
- electrophotography S06-D09
- generators V05-E01, V05-E03
- inspection of airline baggage W06-B02A5A
- measuring, general - see also **Nuclear radiation** S03-G02
- medical image analysis S05-D02A5E
- medical imaging, photographic S03-E06B5, S05-D02A5A
- medical imaging, stimulable sheet phosphor S03-E06B3, S05-D02A5C
- medical imaging, video S05-D02A5B, W04-M01F1
- medical therapy S05-A03F
- medical tomography S05-D02A1
- metal detectors S05-D02A5D
- medical, generation and protection S05-D02A3
- microscopes S03-E06B1, V05-F01A3
- optical (analogous) elements V05-E08
- positioning X-ray detector S05-D02A6B, S03-E06H2
- positioning X-ray source S05-D02A6A, S03-E06H4
- semiconductor sensors S03-G02B2G, U12-A03
- semiconductor sensors (for materials investigation) S03-E06H5A
- synchrotron tube V05-E03A, X14-G02
- tomography S03-E06B3
- tomography, medical S05-D02A1
- tube V05-E01, V05-E03
- video camera W04-M01F1, S03-E06H5D

X-ray equipment
- control V05-E02
- monitoring excess current V05-E02C5A
- monitoring temperature V05-E02C5A
- power supply V05-E02A
- protection V05-E02C5
- protection of tube V05-E02C5A

X-ray fluorescence S03-E06D

X-ray generator
- laser target impact type tube V05-E03B
- non-standard V05-E03
- non-standard generator details V05-E03
- non-target impact type tube V05-E03
- plasma x-ray generator V05-E04
- synchrotron V05-E03A, X14-G02
- target impact type tube V05-E01

X-ray laser V08-B02
- extreme ultraviolet V08-B02
- generator V05-E03C

X-ray lithography U11-C04H
- exposure appts., method for semiconductor mfr. U11-C04H1
- masks U11-C04H2

X-ray optics V05-E08
- passive V05-E08C
- wave effect manipulation V05-E08A

X-ray spectrometer
- measuring radiation S03-G02C3
- discharge tube details V05-F01A6

X-ray tube
- anode cooling V05-E01B5
- anode electrode V05-E01A
- anode electrode material composition V05-E01A1
- cathodes V05-E01C
- characterised by type V05-E01H
- circular electron beam path type tube V05-E01H5A
- cold cathode emitters V05-E01C7
- cooling system (not specifically for anode) V05-E01F
- electron-optical appts. V05-E01D1
- employing electron gun V05-E01H5
- fixed anode type V05-E01H3
- flash type tube V05-E01H7
- lead-in conductors V05-E01E5
- liquid metal anode type V05-E01H9
- multiple rotary anode type tube V05-E01H1A
- non-target impact type tube V05-E03
- rotary anode cooling V05-E01B5
- rotary anode system V05-E01B
- rotary anode type tube V05-E01H1
- seals V05-E01E3
- tube cooling V05-E01B5

X-ray tube windows V05-E01E1A

X-Y digitiser T04-E

X-Y plotters S02-K05

Xenon lamp X26-A01A

Xerography - see Electrophotography S06-E

Y

Yoke
CRT deflection V02-F01A
V05-D01B
V05-D06B1A
W03-A08A1B
high frequency inductor V02-F01
V02-F03A2
high frequency transformer V02-F02
V02-F03A2
high power device X12-C01A
high power reactor X12-C01A
X12-C01F
high power transformer X12-C01A
X12-C01E
low power device, general V02-C
low power supply reactor V02-G01C
V02-G02A2
low power supply transformer V02-G01A
V02-G02A2
manufacture V02-H03
X12-C01D1

Z

Zapping
laser zapping (fuses, etc.) U11-C07B
U11-C19B
TV channel changing W03-A02B3
Zebra (RTM) connection V04-A07
Zeeman effect S01-E01C
Zener diode U12-C01D
ZIF connector V04-M16
ZigBee
digital interface W01-A0A7H2A
network W01-A06C4A
Zinc selenide - see AII-BVI compounds
Zinc sulphide - see AII-BVI compounds
Zone refining, semiconductor U11-B02A

Appendices

Appendix 1: EPI Subject Matter Coverage

Patents are included in EPI in two ways, namely:

1. Automatic inclusion based on the assigned IPC
2. Intellectual selection based on technical content

Automatic inclusion criteria

Some sections of the IPC relate to subject matter which is always of relevance to EPI. Thus assignment of any IPC from section H, will result in inclusion. Patents bearing certain other IPC subsections are also automatically included, to ensure that all disclosures received by Thomson Reuters can be assigned to at least one part of our overall classification system. Since some of these IPCs relate to technologies which are not inherently electrical, this results in the inclusion in EPI of some inventions of a purely mechanical nature, in the fields of instrumentation and control, for example.

It should be noted that where an IPC is considered to be inappropriate the normal correspondence between IPC and Thomson Reuters classification does not apply. In some cases, this may necessitate the assignment by Thomson Reuters of an additional IPC to enable the invention to be covered by the most suitable class of the General and Mechanical Patents Index, rather than EPI. From 2006 mechanical patents relating to the transportation area have been intellectually selected for inclusion in EPI.

Below is a list of IPC sections and subsections which normally guarantee the inclusion of a patent in EPI. For further details of the relation between IPC and EPI classes please refer to Appendix 4, the concise guide to EPI classification. (For details of the correspondence between IPC and manual codes see Appendix 3).

A61N
G01
G02B6
G02F
G03G
G04
G05B
G05D
G05F
G06
G07
G08
G09G
G10H
G10L
G11
G12
H

Intellectual selection criteria

Patents are included on this basis provided that at least one of the following criteria is satisfied:-

a Relevance to an electrical industry

This may involve the product of an industry itself, or manufacturing methods and equipment (whether electrical or not) used in that industry. Examples of such industries include electrical and electronic components, semiconductor device manufacture, data recording, telecommunications, and computers.

b Significant electrical content

Patents included on this basis may relate to any field of technology, provided that any electrical aspect forms a significant part of the invention, and is not just an incidental feature.
For example, in the case of a machine tool, the presence of an electric motor or limit switch alone would not normally justify its inclusion. If the incorporation of motor or switch in the tool was the novel aspect then it would be included. In the industrial field, examples of inventions that are covered by EPI on the basis of significant electrical content include conveyors, lifting equipment, food processing, metallurgy, textiles etc.
Note that the electrical content required must normally be a claimed feature of the invention. However, disclosures with considerable electrical content in a detailed description of the invention which is clearly referred to in general terms in the claims would be included.
Note also that the use of existing electrical apparatus or techniques in patents claiming a process or method only would not normally be sufficient for inclusion

c Relevance to automotive electrics

Any patent of this type with electrical content - not necessarily claimed – is included in EPI

d Relevance to domestic electrical equipment

All aspects of domestic electrical equipment are selected, including purely mechanical details such as refrigerator door seals or shelves for electric cookers.

e Relevance to other specified subjects

All novel aspects of the following are included:-

- Clocks and watches
- Electrophotography
- Holography
- Line printers and electronic typewriters
- Steam turbines

f Relevance to non-electrical content

From the dates highlighted below, patents coverage has been extended so that general or mechanical aspects of an invention are also selected for inclusion in the Electrical (or Engineering) Patent Index .

From 2006 all mechanical aspects of transportation related patents (vehicles, aircraft, ships, trains) are included.

From 2012 all mechanical aspects of packaging related inventions are included.

From 2015 patents are also selected to highlight general or mechanical aspects of an invention for other technologies.

Appendix 2: EPI Manual Coding Criteria

EPI manual codes are normally assigned in two ways, namely:-

1 To highlight the novel aspect of an invention itself

2 To indicate significant application

In the first case, codes will usually be assigned based on the content of the patent claims. In the second case, applications may be derived from either the claims or the wider disclosure of the specification.

The following general points should be noted regarding the assignment of EPI codes:-

1 A patent may be selected for inclusion in EPI based on its intended use only, the actual novel aspect being outside the scope of EPI codes. For example, the invention may relate to a novel chemical compound of relevance to an electrical or electronic industry, such as a polymer composition intended as a magnetic tape substrate. In such a case, only the application aspect can be conveyed by EPI codes.

2 Where an invention has no stated application, is of universal application, or a series of applications is given which are merely standard uses for such a device, manual codes are usually assigned to describe only the invention itself. Examples of this include a common electronic component such as a capacitor, or a battery of a type used in a wide variety of portable devices. However, significant electrical applications which are emphasised, or are one among several non-electrical applications, will be coded.

3 EPI manual codes are hierarchical in structure, such that an increase in the number of characters represents a finer subject breakdown. This means that in cases where the precise details of an invention cannot be determined with certainty, or where several code subdivisions are equally applicable, a general manual code may be assigned. A more general code is also assigned if an appropriate sub-division code does not exist. Thus, when formulating a search, users are advised to consider the inclusion of a more general code in addition to finer subdivisions which are known to be relevant.

4 In many areas of the EPI coding system, in addition to codes for a product, separate subdivision codes are provided to represent materials used in the product, their manufacture, and manufacture of the product. Where 'materials' and 'manufacture' codes are not available, these topics are coded as the product itself. Note that in general, the manufacture of materials used in a product is not coded as manufacture of the product unless it is one of a number of steps in a process for manufacturing the product as a whole. Thus, manufacture of a polymer material which can be used as a magnetic tape substrate is coded as a tape substrate. Subsequent processing of the material, such as cutting or shaping to form the actual substrate, is coded as substrate manufacture.

5 As explained in *Appendix 1*, patents are included in EPI either by virtue of patent office-assigned IPC or by an intellectual selection process. Irrespective of the initial route by which the invention is included, the same intellectual criteria are used to assign manual codes. However, it should be noted that the requirements for electrical content differ between EPI classes since, as explained in Appendix 1, some inventions are included because of their assigned IPC being 'guaranteed' for EPI and may not have an electrical aspect. For example, a patent in the field of instrumentation or control, included only on the basis of its IPC, cannot be assigned for an application in X25 (industrial equipment) since the electrical content requirements for that class are not satisfied. Conversely, an invention selected for X25 based on its electrical content can be coded for any significant control or instrumentation content where relevant.

Appendix 3: IPC to EPI Manual Code Approximate Concordance

The following concordance is intended to assist users in determining, for an IPC relating to a technical field of interest, the EPI manual code, or code group, which represents similar subject matter. Where it is thought helpful, some combinations of IPCs which may be used to represent a particular topic have been included. When seeking the EPI code (or codes) corresponding to such a combination, the IPCs will be found in alphanumeric order. This table is intended as a general guide only, to be used as a 'short cut' to finding an approximately equivalent area of the EPI coding system. Where a number of code subdivisions correspond to a particular IPC, only the highest level code is shown for clarity. In addition, it should be remembered that patents bearing IPCs relating to technologies which are not inherently electrical will only be included in EPI if the specification in question has substantial electrical content.

Section A

A01	X25-N
	X27-A
A01B	P11
A01C	P11
A01D	P12
A01D-045/16	P15-L01
A01D-090/00-16	Q19-G
A01F	P12
A01G	P13
A01H	P13
A01J	P13
	X25-P01C
A01K	P14
	X25-N02A
A01K-013, 014, 017	P14-A03
A01K-015/02,04	X27-H03
	P14-A01B
A01K-021, 049, 067	P14-A05
A01K-025, 027	P14-A04
A01K-037	P14-A01
A01K-039/00,06	X27-H02
A01K-061/02	X27-H02
A01K-063/00	X27-H01
A01K-069-099	P14-B02
A01L	P14-A06
	P14-E01A
A01M	X27-X02
	P14-B01
A21-24	X25-P
A23,47	X25-P01A
A23L	X25-F03A
	X25-P01X
A24	X25-P03
A24B	P15-L
A24B-003-015	P15-L05
A24C	P15-M
A24D	P15-T
A24D-001	P15-A01
A24D-001/16	P15-T04
A24D-003	P15-T01
A24D-003/02	P15-M
A24F-001-005, 011	P15-T03
A24F-007	P15-L01
A24F-015, 017	P15-T04
A41-43	X27-A02B
	X27-A02B1A
A41-47	X27-A02
A41	P21
A42	P21
A43	P22
A44	P23
	X27-A02B2
A45,47	X27-A02A3
A45B	P24-A
A45C	P24-B
A45D	X27-A02A1
	X27-A02A3B
	P24-C
A45F	P24-D
A46	P24-E
A47	X27-A02A3A
	X27-A03
A47,B62B	X27-X01
A47,F24C,H05B	X27-C
A47B	P25
A47C	P26
A47D	P26-F
A47F	P27-A
A47G	P27-B
A47G-007/04	P25-A01X
A47H	X27-T
	P27-C
A47J	X27-B
	P28-A
A47J-036/38	X27-B05
A47K-001/00-004/00	X27-A02A4
A47K	P28-B
A47L	P28-C
	X27-D03
	X27-D04
A47L,D06F	X27-D
A47L,D06F-053	X27-D06
A47L-009,B04C	X27-D04C
A47L-011,-013	X27-D05
A61	S05-G02G
	S05-X
A61,G06F-017	S05-G02G1
	S05-G02G2
A61B	P31
	S05-D
	S05-G02B2
A61B,A61G-003	S05-G02B2B
A61B,G06F-015	S05-D06
A61B-001	S05-D04

A61B-001,G01M-011	V07-N02
A61B-003	S05-D05
A61B-003,G03B-005	S06-B01E
A61B-005	S05-D01J
A61B-005,008	S05-D01
A61B-005,G01N	S05-C05
A61B-005,G01N-033,35	S05-C02
	S05-C03
A61B-005/02	S05-D01B
A61B-005/03,16	S05-D01X
A61B-005/04	S05-D01A
A61B-005/05	S05-D01D1
	S05-D02B
A61B-005/05,12	S05-D01D
A61B-005/08	S05-D01C1
A61B-005/08,007/00-04	S05-D01H
A61B-005/08,10,22	S05-D01C
A61B-005/10,11,22	S05-D01C5
A61B-005/10,22	S05-D01C5A
A61B-005/14	S05-D01G
A61B-005/14,	S05-C01
A61B-005/14,20,G01N-033,035	S05-C
A61B-005/16	S05-D01F
A61B-005/20,	S05-C09
A61B-006	S05-D02
A61B-006/03	S05-D02A1
A61B-006/04	S05-D02A6
	S05-D02E
A61B-006/08-10	S05-D02A3
A61B-006/14,A61C	S05-E03
A61B-008	S05-D03
A61B-017	S05-B01
	S05-B04
	S05-B05
A61B-017,019	S05-B09
A61B-017,019,	S05-B
A61B-017/225	S05-B02
A61B-017/36-41	S05-B03
A61B-018/02	S05-B06
A61C	P32
	S05-E
A61C-001,003	S05-E01
A61C-019	S05-E02
A61D	P32
A61D-001	S05-B
A61F	P32
	S05-F
A61F-002/14-16	S05-F05
A61F-002/18	S05-F01
A61F-002/24	S05-F04
A61F-002/28-46,54-66,3	S05-F03
A61F-005/14	P22-F05
A61F-005/44	S05-F02
A61G	P33
	S05-G02
A61G,A61L-002,009	S05-G
A61G-001,005	S05-G02A
A61G-003/00-08	Q19-H03
A61G-003/00	P26-A01B
A61G-005	Q22-C02
	P26-A01B
A61G-007	S05-G02B
A61G-011/00	S05-G02B3A
A61G-013,015	S05-G02C
A61G-013/00	P25-A01X
A61G-015/00	P26-A01B
A61G-021/00	Q19-C07
A61H	P33
	X27-A02A2
A61H,A61N	S05-A
A61H,A63B	W04-X01A5
A61H-001-023,037,039	S05-A05
A61H-003	S05-K01
A61H-003,A61	S05-K
A61H-005	S05-A07
A61H-031	S05-A05A
A61H-033-037	S05-A09
A61J	P33
	S05-M
A61J-001,007	S05-M03
A61J-007	S05-M01
	S05-M02
	S05-M04
A61L	P34
A61L-002,009	S05-G01
A61L-002/02,16	S05-G01A
A61L-002/04-14	S05-G01B
A61M	P34
A61M-001	S05-H
A61M-001/00-12	S05-H02
A61M-001/14-38	S05-H01
A61M-005	S05-J
A61M-005/16	S05-J01A
A61M-016	S05-G02E
A61M-019,021	S05-L02
A61M-019,021,016/01	S05-L01
A61M-019-021	S05-L
A61M-037	S05-J02
A61N	P34
A61N-001/00	S05-A03E2
A61N-001/04-06	S05-A02
A61N-001/10-16,40	S05-A03B
A61N-001/18-34,38	S05-A04
A61N-001/30	S05-A04A
A61N-001/36-378	S05-A01
A61N-001/365,368	S05-A01A1
	S05-A01A5
A61N-001/378	S05-A01C
A61N-001/38,39	S05-A01B
A61N-001/40,002,005,7	S05-A03
A61N-002/02-12	S05-A03E1
A61N-005	S05-A03A2
A61N-005/02-04	S05-A03D
A61N-005/06	S05-A03A9
A61N-005/06,08	S05-A03A
A61N-005/10	S05-A03F
	S05-A03X
A61N-007	S05-A03C
A62B-001	P35-A01
A62B-003	P35-A01
A62B-005	P35-A
A62B-007 - 015	P35-A03E
A62B-017	P35-A03C
A62B-018	P35-A03E1
	W06-B01C9
A62B-019 -027	P35-A03E
A62B-029	P35-A03G
A62B-031	P35-A03E
A62B-033	P35-A99
A62B-035	P35-A03A

A62C	P35-C
	X25-X05
A62C-002	P35-C05
A62C-004	P35-C05
A62C-005	P35-C01
A62C-008	P35-C99
A62C-011 – 025	P35-C01C1
A62C-027	X22-P10
	P35-C01C5
	Q19-H02
A62C-029	P35-C01C5
	Q24-P28
	W06-C01C9
A62C 35/00	P35-C01C3
A62D-001	P35-C01A8
A62D-003	P35-X
A62D-005	P35-A03C
A62D-007 -009	P35-A03E
A63	P36
	W04-X
A63,G04,G06M,G07	W04-X01C
A63,G06M,G09F	W04-X01C3
A63,G07,G08B	W04-X01H
A63,G09B	W04-W07E
A63B	P21-D
A63B-001-026	P36-A06
	P85-A01N
	W04-X01A
A63B-027 -029	P36-A06
A63B-031-035	P36-A03
	W04-X01K3J
A63B-037 -063	P36-A01
	W04-X01K1
A63B-069	P36-A
	P85-A01N
	W04-X01A
A63C-001-017	P36-A03
	P36-E07
	W04-X01K3P
	W04-X03E2
A63C-019	P36-A03
	P36-A08C
	W04-X01F
A63D	P36-A01
	P36-C13
A63D-015/04	P25-A01X
A63F-001	P36-C05
	W04-X02B5
A63F-003	P36-C01
	W04-X02B1
A63F-005	P36-C09
	W04-X02E
A63F-007 -011	P36-C
	W04-X02
A63F-013	W04-X02C
A63F,H04H	W02-F10G
	W03-A16C5G
A63G	W04-X03E2
	W04-X03G3
A63H	W04-X03E
A63H-003	P36-E05
	W04-X03E5
A63H-017-029	P36-E01
	W04-X03E1
A63H-030	P36-E
	W04-X03E8
A63J	P36-E15
	P36-F
	W04-X03G1
	W04-X03G7
A63J, G10H	W04-U08
A63K	P36-A03
	P36-A08C
	W04-X01F
	W04-X01K3

Section B

B01D-003/14,B03B, B01F,B02,B04B,C	X25-H09 X25-J
B01L-009/02	P25-A01X
B02B	P41-A07A P41-V60A
B02C	P41-A03 P41-V60A
B03B	P41-E03
B03C,B08	X25-H
B03C-001	P41-E07 X25-H01
B03C-003	X25-H02
B03C-005,007	X25-H02B
B03D	P41-E03
B03D,B07B	X25-H09
B04	P41-J
B04C	X27-D04C
B05B	P42-A X25-K
B05B-005	X25-K01
BO5C	P42-B
B05D	P42
B06,B08B-007	X25-H09
B06B	P43-A
B06B-001	V06-V04C
B06L-005	X23-A04
B07	P41-K X25-F06
B07B-013, B07C-001-5	X25-F06
B07C,G07D	T05-K
B07C-001-5	X25-F06
B08B	P43-B
B09	X25-W01
B09B	P43-E
B21	X25-A02D
B21B	X25-A02B P51-A
B21B-009, 033, 037, 038	P51-T20
B21B-039, 041	P51-T25
B21B-043	P51-T22
B21C-001-019	P51-B
B21C-009, 029	P51-T22
B21C-023-035	P51-C
B21C-025	P51-T05
B21C-031, 051	P51-T20
B21C-033, 045, 047	P51-T25
B21D	X25-A02
B21D-L	P52
B21F	X25-A02E
B21J	X25-A02C
B22	P53
B22D	X25-A01
B23B-H	P54
B23B	X25-A03A X25-A03B
B23C	X25-A03C1
B23C,B24	X25-A03C
B23H	X24-F
B23H-001	X24-F01B
B23H-003	X24-F01A
B23H-007	X24-F02
B23K	P55 X24-D
B23K,B25J	X25-A03E1
B23K-001	X24-A01 X24-A02C X24-A02E
B23K-001,-003	X24-A V04-R04A P55-B
B23K-001/012-015	V04-R04A3J
B23K-001/018	P55-B03
B23K-001/20	P55-A
B23K-003	X24-A02A P55-A
B23K-003/02-03	V04-R04A3L P55-T01
B23K-003/06	P55-T02A
B23K-005,-007	X24-D05
B23K-005	P55-C01
B23K-005/24	P55-T01
B23K-005/213	P55-A
B23K-007, 020	P55-C
B23K-007/10	P55-T01
B23K-009	X24-B
B23K-009/02-04	X24-B01
B23K-009/06-09	X24-B02A
B23K-009/10	X24-B02X
B23K-009/12	X24-B03
B23K-009/14	X24-B04
B23K-009/16	X24-B06
B23K-009/18-20	X24-B05
B23K-010	X24-B06
B23K-011	X24-C
B23K-011/24-26	X24-C01
B23K-013	X24-D01
B23K-015	X24-D02 V05-F08E3
B23K-020	P55-C02
B23K-020/10	X24-D06 X24-D08A
B23K-020/12	X24-D07
B23K-020/24	P55-A
B23K-026	X24-D03
B23K-035	X24-E
B23K-035/362, 363	P55-D01
B23K-035/40	P55-D03
B23K-037/04, 053, 06	P55-T02C
B23P-005	P56-B
B23P-006	P56-G
B23P-009	P56-A
B23P-011, 013, 015, 017, 019, 021, 023, 025	P56-X
B23P-015	P56-U06 P56-U40
B23Q	P56-T
B23Q-001	P56-T01
B23Q-003-009, 016	P56-T25
B23Q-011, 015, 017, 023	P56-T20
B23Q-033, 035	P56-C
B24	P61 X25-A03C2 X25-A03C3
B25	P62 X25-A03D
B25J	X25-A03E
B26	P62
B27	P63
B27B	X25-A03 X25-X01
B28	P64
B29	X25-A06

B29C-027	X24-D04
B29C-033,-035,-67	X25-A08
B30	P71
B30B	X25-A02A
B31,D21	X25-T09A
	X25-T09B
B31	P72
B32	P73
B41	S06-C
B41B-G	P74
B41B	S06-C01
B41C,G03F	S06-C02
B41F	S06-C03
B41J-N	P75
B41J,G06F-003/09,12,	S06-K07
B41J,G06K	S06-K
B41J,G06K,G09G	T04-L, T04-X
B41J,G06K-015	S06
B41J-002/01-215	S06-G
B41J-002/02-035	S06-G02
B41J-002/04-065	S06-G01
B41J-002/22-31	S06-F
B41J-002/23-305	S06-F01
B41J-002/305	S06-F03
B41J-002/31	S06-F02
B41J-002/315-38	S06-H
B41J-002/325	S06-H02
B41J-002/335-34	U14-H01B
B41J-002/335-375	S06-H03
B41J-002/39-425	S06-J
B41J-002/435-48	S06-E
B41J-002/435-48,G03	S06-E01
B41J-002/525	S06-K01
B41J-003	S06-K99A
B41J-011-015	S06-K03A
B42	P76
	X27-A02C
B43	P77
B44	P78
B44B	X25-X10
B51F-017/00-36	Q21-D07
B60B-001/00-14	Q11-A01
B60B-003/00-18	Q11-A02
B60B-005/00-04	Q11-A30
B60B-007/00-20	Q11-A07
B60B-009/00-24	Q11-A
B60B-009/26	Q11-A01
B60B-009/28	Q11-A01
B60B-011/00-10	Q11-A
B60B-015/00-28	Q11-A15A
B60B-017/00-02	Q11-A17
B60B-019/00	Q11-A
B60B-019/02	Q11-A17
B60B-019/04-14	Q11-A
B60B-021/00-025/22	Q11-A03
B60B-027/00-06	Q11-A04
B60B-029/00	Q11-A28
B60B-030/00-10	Q11-A30
B60B-031/00-06	Q11-A28
B60B-033/00-08	Q11-A08
B60B-035/00-18	Q11-A05
B60B-037/00-12	Q11-A19
B60B-039/00-12	Q11-A15B
B60C-001/00	Q11-B
B60C-003/00-08	Q11-B
B60C-005/00-24	Q11-B01A
B60C-007/00-28	Q11-B01S
B60C-009/00-30	Q11-B04
B60C-011/00-24	Q11-B06
B60C-013/00-04	Q11-B05
B60C-015/00-06	Q11-B03
B60C-017/00-017/10	Q11-B15
B60C-019/00-023/20	Q11-B30
B60C-023/02-08,20	X22-E02B
B60C-023/10-14	X22-X09
B60C-027/00-22	Q11-A15
B60C-029/00-06	Q11-B02
B60D-001/00	Q11-C
B60D-001/00-66	Q11-C02
B60D-001/01-07	Q11-C01
B60D-003/00	Q11-C05
B60D-005/00	Q11-C07
B60D-007/00	Q11-C
B60F-001/00-04	Q19-R02
B60F-003/00	Q19-R01
B60F-005/00-02	Q19-R09
B60F-005/02	Q25-P10
B60G	X22-M01
B60G-001/00-001/04	Q12-A
B60G-003/00-28	Q12-B
B60G-005/00-06	Q12-B
B60G-007/00-04	Q12-B
B60G-011/00	Q12-B01
B60G-011/02-12	Q12-B01A
B60G-011/14-16	Q12-B01B
B60G-011/18-20	Q12-B01C
B60G-011/22-24	Q12-B01D
B60G-011/26-30	Q12-B01E
B60G-011/32-64	Q12-B01F
B60G-013/00-02	Q12-B02
B60G-013/04	Q12-B02A
B60G-013/06-12	Q12-B02B
B60G-013/14-18	Q12-B02
B60G-015/00-14	Q12-B03
B60G-017	X22-M
B60G-017/00-08	Q12-B04
B60G-017/015	X22-M03
B60G-021/00-025/00	Q12-X
B60H	X22-J02
B60H-001/00-003/06	Q14-M
B60J-001/00-20	Q17-A07
B60J-003,-007	X22-J08
B60J-003/00-06	Q14-D
B60J-005/00-14	Q17-A06
B60J-010/00-12	Q17-A09
B60J-011/00	Q14-X
B60K	X21-A02
B60K-003/00-006/12	Q17-E01
B60K-006/00	X21-A01D
B60K-006/02	X21-A01D1
B60K-006/10	X22-A09
B60K-008/00	Q17-E01
B60K-011/00-08	Q17-E02
B60K-011/12	Q17-A
B60K-013/00-06	Q17-E15
B60K-015/00-10	Q17-E04
B60K-016/00	Q17-X
B60K-017/00	Q13-A
B60K-017/02	Q13-A03
B60K-017/04-16	Q13-A
B60K-017/22-24	Q13-A07
B60K-017/26-32	Q13-A30
B60K-017/34-356	Q13-A11
B60K-017/36	Q13-A
B60K-025/00-10	Q13-C
B60K-025/02	Q11-C02

B60K-025/06	Q11-C02
B60K-026/00	Q17-E05
B60K-028/16	X22-G03B
B60K-031	X22-G03A
B60K-031/00	X22-C02D4
B60K-031/00,12-14	X22-A03B1
	X22-C02D4
B60K-031/02-10	X22-A03B1A
B60K-035/00-037/06	Q17-A11
B60K-041,F16H-061	X22-G
B60K-041/00-20	Q17-E05
B60L	X21-A
	X23-A
B60L-001/02-16	X23-A10
B60L-003	X21-A05
	X23-A02G
B60L-005	X21-B03
	X23-A04
B60L-007,H02P-003	X21-A03
	X23-A01B
	X23-A01B3
B60L-008,-009,-011,-13	X23-A01A
B60L-009-011	X21-A01
B60L-013/00	Q21-B05A
B60L-013/04,06,08	X23-A01A4
B60L-013/04-10	Q21-B05A
B60L-015,H02P-005,-7	X21-A04
	X23-A02A
B60M-001-005	X21-B02
B60M-001-007	X23-A03A
B60N-002	X22-J03A
B60N-002/00-72	Q14-A
B60N-002/48	X22-J03A3
B60N-003/00-005/00	Q14-X
B60P-001/00-64	Q15-A
B60P-001/02	Q15-A15
B60P-001/04-34	Q15-A01
B60P-001/36-38	Q15-A02
B60P-001/40-42	Q15-A03
B60P-001/43	Q15-A04
B60P-001/44-46	Q15-A05
B60P-001/48-50	Q15-A15
B60P-001/52	Q15-A07
B60P-001/54	Q15-A06
B60P-001/56	Q15-A15
B60P-001/58-62	Q15-A08
B60P-001/64	Q15-A15
B60P-003/00	Q15-B
B60P-003/022-025	Q15-B01
B60P-003/03	Q15-B02
B60P-003/035	Q15-B03
B60P-003/04-05	Q15-B04
B60P-003/055	Q15-B06
B60P-003/06-12	Q15-B07
B60P-003/14	Q15-B30
B60P-003/16	Q15-B11
B60P-003/18	Q15-B30
B60P-003/20	Q15-B05
B60P-003/22-24	Q15-B08
B60P-003/28	Q15-B07
B60P-003/30	Q15-B09
B60P-003/32-39	Q15-B10
B60P-003/40-41	Q15-B12
B60P-003/42	Q15-B30
B60P-005/00	Q15-C
B60P-007/00-18	Q15-D
B60P-009/00	Q15-X
B60Q	X22-B
B60Q-001,F21Q-001	X22-B02
B60Q-001/04-20,	X22-B01
B60Q-001/22,005/00	X22-B02R
B60Q-001/24-32,46-52	X22-B02X
B60Q-001/34-42	X22-B02D
B60Q-001/44	X22-B02A
B60Q-001/52	X22-B02E
B60Q-003-007	X22-B03B
B60Q-005/00	Q14-C04
B60Q-007/00-02	Q14-C05
B60R-001/00-12	Q14-E
B60R-003/00-/04	Q14-I
B60R-005/00-04	Q14-F
B60R-007/00-14	Q14-F01
B60R-009/00-12	Q14-F02
B60R-011/00-06	Q14-F
B60R-011/02	X22-X02
B60R-013/00-04	Q17-A10
B60R-013/06-07	Q17-A09
B60R-013/08	Q17-N
B60R-013/10	Q17-A10
B60R-015/00-04	Q14-L
B60R-016/02-06	X22-X
B60R-017/00-02	Q17-X
B60R-019/00-56	Q17-A12
B60R-021/00	X22-J11
	X22-J11B
B60R-021/00-34	Q14-C02
B60R-021/01	X22-J11
B60R-021/16	X22-J07
B60R-022	X22-J03B
B60R-022/00-48	Q14-C01
B60R-022/195	X22-J03B1
B60R-022/32	X22-J03B1
B60R-025,G08B-013	W03-B03A1
B60R-025/00-10	Q14-H
B60R-027/00	Q17-X
B60S-001/00-003/06	Q16-A01
B60S-001/08	X22-J01
B60S-003	X25-H09C
B60S-005/00-06	Q16-A02
B60S-009/00-013/02	Q16-A03
B60T-003/00	Q18-A10
B60T-007/00	Q18-A07
B60T-007/02-06	Q18-A07A
B60T-007/08,10	X22-C02A
B60T-007/08-10	Q18-A07B
B60T-007/12	X22-C02D
B60T-007/12-22	Q18-A07C
B60T-008	X22-C02C
B60T-008/32-50, 58-64,72-86	X22-C02C3
B60T-008/32-50, 66-84	X22-C02C1
B60T-013/74	X22-C02C7
B60T-017/18-22	Q18-A15
B60V-001/00-22	Q19-R01
	Q17-A15
B60V-003/00-02	Q19-R01
B60V-003/06	Q24-P10
B60V-003/08	Q25-A05F
B61B-001/00-02	Q21-A
B61B-003/00-02	Q21-B01A
B61B-005/00-02	Q21-B01B
B61B-007/00-06	Q21-B03
B61B-009/00	Q21-B03A
B61B-010/00-04	Q21-B03B
B61B-011/00	Q21-B03C

B61B-012/00-12	Q21-B03
B61B-013/00	Q21-B09
B61B-013/02	Q21-B04
B61B-013/04-06	Q21-B02
B61B-013/08	Q21-B05
B61B-013/12	Q21-C01D
B61B-015/00	Q21-B09
B61C-001/00-14	Q21-C01A
B61C-003/00-02	Q21-C01B
B61C-005/00-04	Q21-C01C
B61C-007/00-04	Q21-C01D
B61C-008/00	Q21-M02
B61C-009/00-52	Q21-D13
B61C-009/02-06	Q21-C01A
B61C-009/08-36	Q21-C01C
B61C-009/38-52	Q21-C01B
B61C-011/00	Q21-C01D
B61C-011/02	Q21-C01D1
B61C-011/04	Q21-B04
	Q21-C01D2
B61C-011/06	Q21-C01D3
B61C-013/00-02	Q21-B09
B61C-013/04	Q21-B01
B61C-013/06	Q21-B03
B61C-013/08	Q21-B02
B61D-001/00-08	Q21-C03A
B61D-003/00-20	Q21-C03B
B61D-005/00-06	Q21-C03C
B61D-007/00-32	Q21-C03D
B61D-009/00-14	Q21-C03E
B61D-011/00-02	Q21-C03F
B61D-013/00-02	Q21-B03A
	Q21-C03G
B61D-015/00-04	Q21-C03X
B61D-015/06	Q21-C03H
B61D-015/08-12	Q21-C03I
B61D-017/00	Q21-D
B61D-017/02-22	Q21-D14
B61D-017/24-26	Q21-D
B61D-019/00-02	Q21-D15
B61D-023/00-02	Q21-J05
B61D-025/00	Q21-D16
B61D-027/00	Q21-J02
B61D-031/00	Q21-J01
B61D-033/00	Q21-J03
B61D-035/00	Q21-J04
B61D-037/00	Q21-J09
B61D-039/00	Q21-D17
B61D-041/00-043/00	Q21-J09
B61D-045/00	Q21-J07
B61D-047/00	Q21-J06
B61D-049/00	Q21-J09
B61F-005/28-36	Q21-D06
B61F-005/38-48	Q21-D05
B61F-007/00	Q21-D08
B61F-009/00	Q21-D09
B61F-011/00	Q21-D10
B61F-015/00-28	Q21-D06
B61F-019/00-10	Q21-D11
B61G-001/00-007/14	Q21-D12A
B61G-009/00-24	Q21-D12B
B61G-011/00-18	Q21-D12C
B61H	X23-A01B
B61H-001/00-005/00	Q21-F01
B61H-007/00-12	Q21-F02
B61H-009/00-06	Q21-F09
B61H-009/02	Q21-B03
B61H-011/00-04	Q21-F09
B61H-011/06-10	Q21-F03
B61H-011/14-16	Q21-F09
B61H-013/00-38	Q21-F05
B61H-015/00	Q21-F04
B61J-001/00-10	Q21-A06
B61J-001/12	Q21-A15
B61J-003/00-12	Q21-A07
B61J-005/02	Q21-X
B61K-001/00-02	Q21-A04
B61K-003/00-02	Q21-A05
B61K-003/02	Q21-X
B61K-005/00-02	Q21-A08
B61K-005/04-06	Q21-M03
B61K-007/00-22	Q21-A02
B61K-009/00	Q21-S
B61K-011/00	Q21-M02
B61K-011/02	Q21-M03
B61K-013/00-04	Q21-J09
B61K-013/04	X23-C01
B61L	X23-B
B61L-001/00-12,20	X23-B01
B61L-001/14,16	X23-B01A
B61L-001/18	X23-B01C
B61L-003	X23-B02
B61L-003/12	X23-B02C
B61L-005/00	Q21-S01
B61L-005/02-10	Q21-S01A
B61L-005/12-18	Q21-S01C1
B61L-005/20-24	Q21-S01C2
B61L-005-015	X23-B03
B61L-011/00-08	Q21-S01A
B61L-013/00-04	Q21-S01C
B61L-015/00-02	Q21-S01C3
B61L-017	X23-B05
B61L-019	X23-B04A
B61L-019/00-16	Q21-S01E
B61L-019-023	X23-B04
B61L-021	X23-B04C
B61L-023	X23-B04E
B61L-023/00	Q21-S05
B61L-023/08-20	Q21-S05A
B61L-023/22-32	Q21-S05C
B61L-023/34	Q21-S05
B61L-025-029	X23-B05
B61L-027	X23-B05C
B61L-029	X23-B05A
B61L-029/00	Q21-S07
B61L-029/02-06	Q21-S07A
B61L-029/08-22	Q21-S07B
B61L-029/24-32	Q21-S07C
B62B-001/00-26	Q22-A01
B62B-003/00-18	Q22-A02
B62B-005/00-08	Q22-A03
B62B-007/00	Q22-B
B62B-007/02	Q22-B01
B62B-007/04-14	Q22-B02
B62B-009/00-28	Q22-B03
B62B-011/00	Q22-C
B62B-013/00-019/04	Q22-C01
B62C-001/00-04	Q22-D
B62D	X22-C05
B62D-001/00-02	Q18-B01
B62D-001/04-11	Q18-B01A
B62D-001/12-14	Q18-B01B
B62D-001/16-20	Q18-B01D
B62D-001/22-28	Q18-B01X
B62D-003/00	Q18-B02
B62D-003/02-12	Q18-B02A

B62D-003/14	Q18-B02B
B62D-005	X22-C05A
B62D-005/00	Q18-B06
B62D-005/02	Q18-B06A
B62D-005/04	X22-C05A3
B62D-005/06-32	Q18-B06C
B62D-006	X22-C05B
B62D-006/00-10	Q18-B07
B62D-007/00-22	Q18-B03
B62D-009/00-04	Q18-B09
B62D-011/00-24	Q18-B12
B62D-012/00-019/00	Q18-B15
B62D-013/00-06	Q19-J
B62D-021/00-20	Q17-A08
B62D-021/20	Q19-J
B62D-023/00	Q17-A03
B62D-024/00-04	Q17-A08
B62D-025/00-033/10	Q17-A02
B62D-031/00-04	Q19-C01
B62D-035/00-039/00	Q17-A05
B62D-041/00	Q17-A20
B62D-043/00-10	Q17-A13
B62D-047/00-02	Q19-C01
	Q19-C01
B62D-049/00-051/00	Q17-A20
B62D-053/00-12	Q19-C02
B62D-053/08-12	Q11-C02
B62D-055/00-32	Q17-A14
B62D-057/00-04	Q17-E15
B62D-059/00-04	Q19-J
B62D-061/00-063/04	Q17-X
B62D-063/06-08	Q19-J
B62D-065/00-18	Q16-D
	Q21-M05
B62D-067/00	Q16-R
B62H-001/00-14	Q14-J
B62H-003/00-12	Q14-J
B62H-007/00	Q14-C07
B62J-027/00	Q14-C06
B62J-029/00	Q14-C06
B62J-035/00-037/00	Q17-E04
	Q19-B
B62K-001/00	Q19-A
B62K-001/14	Q18-B09
B62K-003/00-16	Q19-A
B62K-005/02-06	Q19-A
B62K-007/00-04	Q19-A
B62K-009/00-02	Q19-A
B62K-009/02	Q19-A
B62K-011/00-14	Q19-B
B62K-011/02-10	Q17-A
B62K-011/12	Q18-B15
B62K-013/02	Q19-A
B62K-013/04	Q19-A
B62K-013/06	Q19-A
B62K-027/00-16	Q14-G
B62M-001/02	Q13-A15
B62M-001/12	Q13-A15
B62M-001/12-16	Q13-A15
B62M-003/00-06	Q13-A15
B62M-003/08-12	Q13-A16
B62M-003/14	Q13-A15
B62M-003/16	Q13-A15
B62M-005/00	Q13-A15
B62M-007/00-14	Q19-B
	Q17-A
B62M-027/00-02	Q22-C01
	Q22-C01

B63	W06-C
B63,B63C	W06-C07
B63,G01S	W06-C01B1
B63,G05	W06-C01A
B63,G06F,G08C	W06-C01B8
B63,H01R,H02G	W06-C01C1
B63B	W06-C01C
B63B,F21,F24	W06-C01C5
B63B,G01	W06-C01B5
B63B,G015,H01Q	W06-C01B
B63B,H01Q,H04B	W06-C01B7
B63B,H02J,H02K	W06-C01C3
B63C-009	W06-C10
	W06-C15C
B63G-007,F41	W07-F05
B63H,F02,G05	W06-C01A1
B63H,G05D-001	W06-C01A5
B64	W06-B
B64,B64G-007,G09B	W06-B04
B64,G01N,G01V	W06-B02A
B64C,B64D	W06-B01
B64C,B64D,F02C,	W06-B01A1
B64C,B64D,G05D-001	W06-B01A5
B64C,B64D,G06F	W06-B01B8
	W06-B01C
B64C,B64D,G07C	W06-B01B6
B64C,B64D,H01R	W06-B01C1
B64C-013/00-50	W06-B01A5
B64C-015/00-14	W06-B01A5
B64C-031/00-036	W06-B09
B64D	W06-B02D
B64D,F21,F24	W06-B01C5
B64D,G01C,G01S	W06-B01B1
B64D,G11B,H04B	W06-B01C7
B64D,H01Q,H04B	W06-B01B
B64D,H02J,K,M	W06-B01C3
B64D-015	W06-B01C4
B64D-025	W06-B01C8
	W06-B01C9
B64F	W06-B02
B64F,F21,G01S	W06-B02E
B64G	W06-B03
B64G-001	W06-B03A
B64G-001,-006	W06-B03D
B64G-001,F24J,H02M,	W06-B03B
B65	X25-F01
	X25-F03
	X25-F03B1
B65,B66	X25-F
B65,G01,H01L-021	U11-F
B65,H01J-009	V05-L07E7
B65F-001/014	X25-W04
B65F-003/00-28	Q19-C04
B65G	X25-F07
B65H	X25-F02A
B66	X25-F04
	X25-F05A
B81	U12-B03F1
	V03-C07A
	V03-C10
	V03-D06B1
	V03-D10
	V06-V01K1
	V06-V03A7
	V06-M06G
	V06-M11G
	V06-N22
	V06-N40H

B82	U12-B03F2
	V03-C07A
	V03-C10A
	V03-D06B1
	V03-D10A
	V06-V01K2
	V06-V03A7
	V06-M06G9
	V06-M11G
	V06-N22A
	V06-N40H1

Section C

C02F-001/00-011/20	X25-H03
C09K-011,H05B-033	U11-A15
C09K-019	U11-A03A
C12C	X25-P01B
C12C-013	X27-X02
C14B	X25-X07
C21	X25-Q
C23C	X25-A04
C23C,H01J	V05-F08D
C23C,H01J-037	V05-F08D5
C23C,H01J-037/32-36	V05-F05C
C23C-014,H01J-037/34	V05-F05C
	V05-F08D1A
C23C-014/24	U11-C01A1
C23C-014/34	U11-C01A3
	U11-C09A
	U11-C01A9
C23C-016	U11-C09B
C25	X25-R
C25B	X25-R01
C25B-001/13	X25-X04
C25B-009	X25-R01A
C25B-011	X25-R01B
C25B-013	X25-R01C
C25C	X25-R02
C25D	X25-R03
	X25-R04
	X25-R05
	X25-R07
C30B-013	U11-B02A
	U11-B02B
C30B-015	U11-B01
C30B-015/34	U11-B04
C30B-029/04,08,36	U11-B03C
C30B-029/40	U11-B03A
C30B-029/48	U11-B03B

Section D

D01,02,07	X25-T04A
D01-07	X25-T04
D03	X25-T04B1
D03-06	X25-T04B
D04B	X25-T04B2
D04H	X25-T04B3
D05B,D05C	X25-T04C
D06	X25-T04G
D06F	X27-D01A
D06F-019/00	X27-D01A
	X27-D07
D06F-049,058	X27-D02
D06F-053	X27-D06
D06F-075	X27-D03
D21	X25-T09

Section E

E01	Q41
	X25-U
E02	Q42
E02F	X25-D01
E02F,E21C,D,F	X25-D
E03D-001/00-013/00	X27-L
E03	Q42
E04B	Q43
E04C	Q44
E04D, F	Q45
E04H-004	X25-X06
E04H-006	X25-U02
E05	Q47
E06	Q48
E05B	X25-M
E21	Q49
E21B	X25-E
E21B,G01V,G08C	W05-D07H
E21C	X25-D02B
E21C,D,F	X25-D02
E21F	X25-D02C

Section F

F01	X11-A
F01B-001/01	Q51-A01A
F01B-001/02-12	Q51-A01B
F01B-003/00	Q51-A
F01B-005/00	Q51-A
F01B-007/00-20	Q51-A01C
F01B-009/00-08	Q51-A03E
F01B-021/00-04	Q51-A03A
F01C-001/02-46	Q51-B
F01C-003/00-08	Q51-B
F01C-005/00-08	Q51-B
F01C-007/00	Q51-B
F01C-009/00	Q51-B05
F01C-017/00-06	Q51-B03E
F01C-019/00-12	Q51-B03C
F01D	Q52
	X11-A01
F01D-005,-007	X11-A01A
F01D-005/02-10	X11-A01A2
F01D-005/12-20	X11-A01A1
F01D-005/22-34	X11-A01A2
F01D-009,-011	X11-A01B
F01D-017	X11-A10A
F01D-019,-021	X11-A10B
F01D-025	X11-A01C
F01L-001/00-3/24	Q51-E
F01L-005/00-24	Q51-E02
F01L-007/00-18	Q51-E03
F01L-009/04	X22-A11
F01L-015/00-031/00	Q51-E04
F01M-	Q51-F
F01M-003/00-04	Q51-F02
F01M-011/00-25	Q51-F01
F01N-009	X22-A07
F01P	X22-A10
F01P-	Q51-G
F01P-001/00-10	Q51-G01
F01P-003/00-22	Q51-G02
F02	W06-C01A1
F02B	X11-C02
F02B-033/00-44	Q51-H05A
F02C	X11-C01
F02D	X22-A03
	W06-B01A1
F02D,G05	W06-B01A1
F02D-001	X22-A03A3
F02D-009	X22-A03B
F02D-009/06	X22-A03B5
F02D-013	X22-A03G
F02D-013,-017	X22-A03D
F02D-023,-043	X22-A03C
F02D-041/02-20,24-28	X22-A03A
F02D-041/08,16,	X22-A03B3
F02D-041/30-32, 36-38	X22-A03A1
F02D-041/34,40	X22-A03A1A
	X22-A03A1C
F02D-043	X22-A03A2
F02D-043,F02M-007/10	X22-A03A2A
F02M,F02M-027/04	X22-A02
F02M-001/12, -003/045,07,-007/10-11	X22-A02C
F02M-003/045,06-07	X22-A03B3
F02M-013/00-15/02	Q51-H01
F02M-025/08	X22-A03A4
F02M-025/08,-033	X22-A02E
F02M-031/125	X22-A02B
F02M-031/13	X22-A15
F02M-035	X22-A06
F02M-035/00-16	Q51-H05
F02M-037/08-10	X22-A02D
F02M-039-059	Q51-H01B
F02M-051,069/42	X22-A02A
F02M-1/00-19/02	Q51-H01A
F02N-011,H01H	X22-A08
F02P	X22-A01
F02P,H01F-038/12	X22-A01A
F02P-001	X22-A01A1
F02P-003/01,06-12	X22-A01A9
F02P-003/02-055	X22-A01A2
F02P-005	X22-A01B
F02P-007	X22-A01C
F02P-007/02-04	X22-A01C1
F02P-007/06	X22-A01C2
F02P-007/063-073	X22-A01C3
F02P-009	X22-A01A9
F02P-011	X22-A01A7
F02P-017	X22-A01D
F02P-017/02	X22-A01E
F02P-019/02	X22-A01A3
F03B	Q54-A
	Q54-B
	X11-B
F03B-001-011	X11-B01
F03B-013	X11-B09
F03B-013/06	X11-B06
F03B-013/12-24	X15-C01
F03B-015	X11-B10
F03C	Q53
F03D	Q54-G
	X15-B
F03D-001-005	X15-B01A
F03D-007-011	X15-B09
F03G	Q54-E
	Q54-F
F03H	Q54-X
F03H-005	W06-B03A
F04	X25-L03
F04B	Q55
F04C	Q55
F04D	Q56-A
	Q56-B
F04F	Q56-C
F14G-007,G01C,G01S	W07-A01A
F15	Q57
F16B	Q61
F16C	Q62
F16D,F	Q63
F16D,H	X25-L02
F16G,H	Q64
F16H-061	X22-G
F16J	Q65
F16K	Q66
	X25-L01
F16L	Q67
F16M-S	Q68
F16N	X25-X09
F16T	Q69
F17	Q69
F21	Q71
F21K-002/08,F21V-001	X26-X
F21L-004,-011,-013-14/0-4	X26-E
F21L-004/00-08	X26-E01

F21M-003	X22-B01
F21M-007	X22-B01
F21P-005	X26-K
F21Q-001	X22-B02
F21V-001/00-26	X26-P
F21V-003/00-04	X26-D03
F21V-005,-007,-009, -011,-013	X26-D01
F21V-005/00-08	X26-D01B
F21V-007/00-22	X26-D01A
F21V-008	V07-N03
	X26-G
F21V-008/00	V07-N03
	X26-G
F21V-009/00-16	X26-D01C
F21V-011/00-18	X26-D01D
F21V-013/00-14	X26-D01
F21V-014/00-08	X26-L
F21V-015/00-08	X26-D03
F21V-017,-019	X26-X
F21V-021	X26-R
F21V-029	X26-D02
F22	Q72
	X25-W02
F23	Q73
	X27-G
F23G-007	X25-W01
	X25-W01A
F23N	X27-G02
F23Q	X27-G01
F23Q-007/00	X22-A01E
F24	Q74
	X27-E
F24C	X27-C03
	X27-C04
	X27-C07
	X27-C09
F24C,F23	X27-C05
F24C,H05B-006/02-44	X27-C06
F24C-007,	X27-C01
F24C-007,-015,	X27-C02
F24C-007,H05B	X27-C02C
F24C-007,H05B-003	X27-C02A
F24C-15/20	X27-B05
F24D	X27-E01A
F24D,F24H	X27-E01A1
F24D,F24J	X27-E01A5
F24D,H05B-003	X27-E01A3
F24F	X27-E01B
F24H	X27-E09
F24H,H05B	X27-E03A
F24H,H05B-003	X27-E03
F24J-002/04-40	X15-A01
F24J-003/08,H01L-035	X15-X
F25	Q75
	X27-F
F25B	X27-F02B
	X27-F02C
	X27-F03
F25B-030/00	X27-F02B
F25D-023	X27-F01
F26	Q76
F26B	X25-G
F27	Q77
F27D	X25-C
F27D-011/02-04	X25-C01
F27D-011/06	X25-C05
F27D-011/08-12	X25-C02
F27D-019,-021	X25-C03
F28	Q78
F41	Q79
F41,F42,H01,H02	W07-J
F41,F42,H01B,H01R	W07-J01
F41,F42,H02	W07-J03
F41,F42,H05K	W07-J05
F41,G09B	W07-D05
F41,H01J-031,H04N	W07-G
F41A-019/58	W07-E01
F41B-006,F41F	W07-E05
F41B-006,H02K	W07-E05A
F41B-015/04	W07-E08
F41G-001	W07-B01
F41G-001-003	W07-B
F41G-003,005	W07-B05
F41G-007	W07-A
	W07-A01C
F41G-007,G01C,S	W07-A01A
F41G-007,G01J,H01L	W07-A03B
F41G-007,G02B,	W07-A03D
F41G-007,H01Q	W07-A03A
F41G-007/20-22	W07-A01C
F41G-007/24-28	W07-A01E1
F41G-007/30-32	W07-A01E3
F41H-005/007	W07-F03
F41H-007/00-10	Q19-D
F41H-011	W07-F03
F41H-011/12-16	W07-F05
F41H-011/16	Q19-D
F41J	W07-D01
F41J,G09B	W07-D
F42	Q79
F42C	W07-C
F42C-009	W07-C03E
F42C-013	W07-C03C
F42C-015	W07-C05
F42C-019	W07-C01

Section G

G01,B64D	W06-B01B5
G01,F41,F42	W07-H
G01,H01C-010	V01-A03D3
G01,H01G-007	V01-B02B3
G01,H01J-037	V05-F08B
G01B	S02-A
G01B-003,005	S02-A01
G01B-003/02-10, 12,18	S02-A01A
G01B-003/11	S02-A10B S02-A01
G01B-003/12	S02-A01A
G01B-003/14	S02-A01 S02-A10C
G01B-003/16	S02-A01A
G01B-003/18	S02-A01A
G01B-003/18-56	S02-A01B
G01B-003/56	S02-A01B, S02-A10D1
G01B-005	S02-A01
G01B-005/004-016	S02-A01, S02-A10G1
G01B-005/02-06	S02-A01, S02-A10B
G01B-005/08-12	S02-A01, S02-A10A
G01B-005/14-18	S02-A01, S02-A10B
G01B-005/20, 207, 213, 22	S02-A01, S02-A10C
G01B-005/24	S02-A01 S02-A10D
G01B-005/245, 25, 252, 255	S02-A01 S02-A10D2
G01B-005/26	S02-A01, S02-A10C
G01B-005/28	S02-A01 S02-A10E
G01B-005/30	S02-A01 S02-A10F
G01B-007	S02-A02
G01B-007/004-016	S02-A02, S02-A10G1
G01B-007/02-06	S02-A02, S02-A10B
G01B-007/12-13	S02-A02, S02-A10A
G01B-007/14,15	S02-A02, S02-A10B
G01B-007/16, 24	S02-A02, S02-A10F
G01B-007/26	S02-A02, S02-A10B
G01B-007/28-293	S02-A02, S02-A10C
G01B-007/30	S02-A02, S02-A10D
G01B-007/305, 315	S02-A02, S02-A10D2
G01B-007/32	S02-A02, S02-A10C
G01B-007/34	S02-A02, S02-A10E
G01B-009,11	S02-A03
G01B-009/02-029	S02-A03, S02-A03A
G01B-009/04-08	S02-A03
G01B-009/10	S02-A03, S02-A10D1
G01B-011/02-06	S02-A03, S02-A10B
G01B-011/08-12	S02-A03, S02-A10A
G01B-011/14	S02-A03, S02-A10B
G01B-011/16	S02-A03, S02-A10F
G01B-011/22	S02-A03, S02-A10B
G01B-011/24-25	S02-A03, S02-A10C
G01B-011/255	S02-A03, S02-A10A
G01B-011/26-275	S02-A03, S02-A10D
G01B-011/28	S02-A03, S02-A10C
G01B-011/30	S02-A03, S02-A10E
G01B-013	S02-A04
G01B-013/02-06	S02-A04, S02-A10B
G01B-013/08-10	S02-A04, S02-A10A
G01B-013/12-14	S02-A04, S02-A10B
G01B-013/16	S02-A04, S02-A10C
G01B-013/18	S02-A04, S02-A10D
G01B-013/19, 195	S02-A04, S02-A10D2
G01B-013/20	S02-A04, S02-A10C
G01B-013/22	S02-A04, S02-A10E
G01B-013/24	S02-A04, S02-A10F
G01B-015	S02-A05
G01B-015/02	S02-A05, S02-A10B
G01B-015/04	S02-A05, S02-A10C
G01B-015/06	S02-A05, S02-A10F
G01B-015/08	S02-A05, S02-A10E
G01B-017	S02-A05B
G01B-017/02	S02- A05B, S02-A10B
G01B-017/04	S02- A05B, S02-A10F
G01B-017/06	S02- A05B, S02-A10C
G01B-017/08	S02- A05B, S02-A10E
G01B-021	S02-A10

G01B-021/02-08	S02-A10B
G01B-021/10-14	S02-A10A
G01B-021/16-18	S02-A10B
G01B-021/20	S02-A10C
G01B-021/22	S02-A10D
G01B-021/24, 26	S02-A10D2
G01B-021/28	S02-A10C
G01B-021/30	S02-A10E
G01B-021/32	S02-A10F
G01C	S02-B
G01C-001	S02-B05
G01C-003	S02-B01
G01C-005,007	S02-B02
G01C-009	S02-B03
G01C-011,013	S02-B04
G01C-017	S02-B06
G01C-019	S02-B07
G01C-019,G01B-009	V07-N01
G01C-019/64-72	S02-B07B
G01C-021	S02-B08
G01C-021,G01S	X22-E06
G01C-022	S02-B12
G01C-023	S02-B11
G01C-025	S02-B10
G01C-029	U14-D01B
G01D	S02-K
	S03-B01H5
G01D,G01J,G12B	S03-A05
G01D,G12B	S02-G07C
G01D-001	S02-K01
G01D-003	S02-K02
G01D-004	S02-K08B
G01D-004,021	S02-K08
G01D-005	S02-K03
G01D-005/00-10, 42-52	S02-K03X
G01D-005/12-252	S02-K03A
G01D-005/12-40	S02-K03A5F
G01D-005/16	S02-K03A2A
G01D-005/16,20,22	S02-K03A2
G01D-005/20	S02-K03A2C
G01D-005/24	S02-K03A1C
G01D-005/24,242	S02-K03A1
G01D-005/242	S02-K03A1A
G01D-005/26-40	S02-K03B
G01D-007	S02-K04
G01D-007/12	S02-K04A
G01D-009	S02-K05
G01D-011	S02-K06X
G01D-011,013,015	S02-K06
G01D-013	S02-K06A
G01D-015	S02-K06B
G01D-018	S02-K07
G01D-021	S02-K08A
G01F	S02-C
G01F-001	S02-C01
G01F-001/05	S02-C01A
G01F-001/06-12,34-50	S02-C01A1
G01F-001/20-32,52,54	S02-C01A9
G01F-001/56-64	S02-C01B4
G01F-001/56-68	S02-C01B
G01F-001/66	S02-C01B1
G01F-001/68	S02-C01B7
G01F-001/684-692	S02-C01B7A
G01F-001/696-699	S02-C01B7C
G01F-001/76-90	S02-C01F
G01F-003	S02-C02
G01F-011,013	S02-C04
G01F-011/02-08	S02-C04A
G01F-011/10-26	S02-C04B
G01F-011/28-46	S02-C04C
G01F-013	S02-C04X
G01F-017,019	S02-C05
G01F-023	S02-C06
G01F-023/14-20	S02-C06B
G01F-023/24	S02-C06C1
G01F-023/24,26	S02-C06C
G01F-023/26	S02-C06C3
G01F-023/26,28	S02-C06C9
G01F-023/28	S02-C06D
G01F-023/30-76	S02-C06A
G01F-025	S02-C07
G01G	S02-D
G01G-001	S02-D01A
G01G-001-009	S02-D01
G01G-003	S02-D01B
G01G-005-009	S02-D01X
G01G-011	S02-D02A
G01G-011-019	S02-D02
G01G-013,015	S02-D02B
G01G-017,019/02-07	S02-D02C
G01G-019/08-64	S02-D02X
G01G-021,023/ 00-16,48	S02-D09
G01G-023/18-46	S02-D03
G01H	S02-E
G01H-003,009,011	S02-E02
G01H-005,007,013, 015	S02-E01
G01H-017	S02-E09
G01J	V07-N01
	S03-A
G01J,G12B-015/00-06	S03-A04
G01J-001	S03-A01
G01J-001,G03B	W04-M01D5A
	W04-M01D5B
G01J-001/00-60	S03-A01B1
	S03-A01B5
	S03-A01B7
	S03-A01B9
G01J-001/00-60, 42, 46	S03-A01B
G01J-001/10-36	S03-A01A
G01J-001/12-26	S03-A02A1
G01J-001/20-60	S03-A01B3
G01J-003,004	S03-A02
G01J-003/00-52	S03-A02X
G01J-003/12-40	S03-A02A
G01J-003/42,44	S03-A02B
G01J-003/427	S03-E04A4
G01J-003/45-453	S03-A02F
G01J-003/46-52	S03-A02C
G01J-004/02,04	S03-A02C
G01J-005	S03-A03
G01J-007,009,011	S03-A09
G01K	S03-B
G01K-001,015	S03-B01H
G01K-001/20-26,015	S03-B01H5
G01K-001-013	S03-B01K
	S03-B01X
G01K-001-015	S03-B01
G01K-005	S03-B01D
G01K-007/01,30-40	S03-B01C
G01K-007/02-14	S03-B01A
G01K-007/18,20	S03-B01B
G01K-007/22,	V01-A02A7A

G01K-007/22,24	S03-B01F
G01K-013	S03-B01E
G01K-015	S03-B01H1
	S03-B01H3
G01K-017,019	S03-B02
G01L	S02-F
G01L-001	S02-F01
G01L-001/02-08	S02-F01A
G01L-001/10-14	S02-F01B
G01L-001/16	S02-F01E
G01L-001/18-22	S02-F01C
G01L-001/24	S02-F01G
G01L-001/25-26	S02-F01X
G01L-003	S02-F02
G01L-005	S02-F03
G01L-005/03-10	S02-F03A
G01L-005/12,13,16,22, 24,28	S02-F03B
G01L-005/14,18-22,26	S02-F03X
G01L-007	S02-F04A
G01L-007/04,06	S02-F04A1
G01L-007/08-14	S02-F04A2
G01L-007/16-24	S02-F04A9
G01L-007-023	S02-F04X
G01L-007-027	S02-F04
G01L-009	S02-F04B
G01L-009/02-06	S02-F04B1
G01L-009/08-18	S02-F04B2
G01L-011/02	S02-F04J
G01L-013	S02-F04C1
G01L-013,17	S02-F04C1A
G01L-013/00-06,15,17	S02-F04C
G01L-015	S02-F04C3
G01L-019	S02-F04E
G01L-021	S02-F04D1
G01L-021,023	S02-F04D
G01L-023	S02-F04D3
G01L-025,027	S02-F04F
G01M	S02-J
G01M-001	S02-J05
G01M-003	S02-J06
G01M-003/04-24	S02-J06A
G01M-003/16	S02-J06A1
G01M-003/20	S02-J06A5
G01M-003/24	S02-J06A3
G01M-003/26-34	S02-J06B
G01M-003/36	S02-J06X
G01M-007	S02-J08
G01M-009/00-08,10	S02-J07
G01M-011	S02-J04
	V07-N02
G01M-013	S02-J03
G01M-015	S02-J01
G01M-017	S02-J02
G01N	S05-C05
G01N,G01D,G12B	S03-E04P
G01N,G11B-005/84	T03-A02C5A
G01N,G11B-011,-013	T03-D01A8J
G01N,H01J-009/20-223	V05-L02H
G01N-001	S03-E13
	S03-E13F
G01N-001,005-007, 021-037	S03-E
G01N-001/04-08	S03-E13A
G01N-001/10-20	S03-E13B
G01N-001/12,14	S03-E13B1
G01N-001/16-20	S03-E13B2
G01N-001/22-26	S03-E13C
G01N-001/28-44	S03-E13D
G01N-003	S03-F02
G01N-003,009-019, 037	S03-F
G01N-003/08-18	S03-F02C
G01N-003/20-24	S03-F02D
G01N-003/26,28,62	S03-F02X
G01N-003/30-38	S03-F02E
G01N-003/40-54	S03-F02A
G01N-003/56-60	S03-F02B
G01N-005	S03-E12B
G01N-005,007	S03-E12
G01N-009	S03-F01
G01N-009/02-06, 30-36	S03-F01X
G01N-009/08-28	S03-F01A
G01N-011	S03-F03
G01N-011/02-08	S03-F03X
G01N-011/10-16	S03-F03A
G01N-013/00-04	S03-F04
G01N-015/02	S03-F05C
G01N-015/02-05	S03-F05
G01N-015/04,05	S03-F05A
G01N-015/06	S03-F06A
G01N-015/06-14	S03-F06
G01N-015/08-14	S03-F06B
G01N-017/00-04	S03-F07
G01N-019/02-04	S03-F08
G01N-019/10	S03-F09
G01N-021	S03-E04
	S03-E04R1
G01N-021,G01M-011	V07-J
G01N-021/21-39	S03-E04A5G
	S03-E04A5L
G01N-021/25-39	S03-E04A4
	S03-E04A
G01N-021/27	S03-E04A1
G01N-021/31-39	S03-E04A5
G01N-021/33	S03-E04A5E
G01N-021/35	S03-E04A5B
G01N-021/41-45	S03-E04B5
G01N-021/41-61	S03-E04B
G01N-021/47-53	S03-E04C
G01N-021/51	S03-E04C2
G01N-021/53	S03-E04C1
G01N-021/55-57	S03-E04B1B
G01N-021/55-61	S03-E04B1
G01N-021/59-61	S03-E04B1A
G01N-021/62-74	S03-E04D
G01N-021/65	S03-E04D1
G01N-021/75-83	S03-E04E
G01N-021/85	S03-E04H
G01N-021/86	S03-E04G
G01N-021/87	S03-E04F3
G01N-021/87-91	S03-E04F
G01N-021/88-91	S03-E04F1
	S03-E04F2
G01N-022	S03-E05
G01N-022/02	S03-E05C
G01N-022/04	S03-E05A
G01N-023	S03-E06
	S03-E06H2
G01N-023/04	V05-F08A
G01N-023/04,	V05-F04J
G01N-023/04,05	S03-E06B
G01N-023/06-18	S03-E06A
G01N-023/18	S03-E06A1
G01N-023/20-207	S03-E06C

G01N-023/22-227	S03-E06D
G01N-024	S03-E07G
	S03-E07X
G01N-024/00-14	S03-E07
G01N-024/08	S03-E07A
	S03-E07C
G01N-024/10	S01-E02A4
	S03-E07E
G01N-025	S03-E01
G01N-025/02-18	S03-E01A
G01N-025/20-48	S03-E01C
G01N-025/25-62	S03-E01B3
G01N-025/50-72	S03-E01B
G01N-027	S03-E02C5
G01N-027/02-24	S03-E02
G01N-027/06-10,14-20	S03-E02B
G01N-027/12	S03-E02A
G01N-027/22	S03-E02C1
G01N-027/22,24	S03-E02C
G01N-027/24	S03-E02C3
G01N-027/26-453	S03-E03A
	S03-E03B
	S03-E03C
	S03-E03X
G01N-027/26-49	S03-E03
G01N-027/327	S03-E03C1
G01N-027/447	S03-E03E
G01N-027/60-70	S03-E10A8
	S03-E10A2
	S03-E10A
	S03-E10A1
	S03-E10A1A
	S03-E10A3
	S03-E10A5
G01N-027/72-90	S03-E11
G01N-027/82-90	S03-E11A
G01N-027/92	S03-E10C
G01N-029	S03-E08
G01N-029/02,16-28	S03-E08X
G01N-029/04-14	S03-E08A
G01N-030,031	S03-E09
G01N-030/02-96	S03-E09C
G01N-030/62-78	S03-E09C7
G01N-030/66	S03-E09C7C
G01N-030/68	S03-E09C7D
G01N-030/70	S03-E09C7E
G01N-030/72	S03-E09C7B
G01N-030/74	S03-E09C7A
G01N-031/02	S03-E09A
G01N-031/10,12	S03-E09B
G01N-031/16-20	S03-E09D
G01N-031/22	S03-E09E
G01N-033	S03-E14
G01N-033,035	S05-C01
	S05-C09
	S05-C
	S05-C01
	S05-C09
	S05-C02
G01N-033/02-15	S03-E14A
G01N-033/15	S03-E14A1
G01N-033/18	S03-E14B
G01N-033/20	S03-E14C
G01N-033/22	S03-E14E1
	S03-E14E3
G01N-033/22,24	S03-E14E
G01N-033/24	S03-E14E7
G01N-033/26-32	S03-E14F
G01N-033/34,36	S03-E14G
G01N-033/38	S03-E14D1
	S03-E14D4
G01N-033/38-46	S03-E14D
G01N-033/44-46	S03-E14D7
G01N-033/48-98	S03-E14H
	S03-E14L
G01N-033/53-577	S03-E09F
G01N-035	S03-E13D1
G01N-035/00-10	S03-E15
G01P	S02-G
G01P-003	S02-G01
G01P-003/36-40	S02-G01A
G01P-003/42-60	S02-G01B
G01P-003/44-495	S02-G01B1
G01P-003/50-60	S02-G01B9
G01P-005	S02-G02
G01P-005/01,18-22	S02-G02X
G01P-005/02-07, 14-175	S02-G02B
G01P-005/08-12	S02-G02A
G01P-013	S02-H
G01P-015/00-16	S02-G03
G01P-021,G01D, G12B	S02-G07
G01R,H01C-017	V01-A04H1
G01R,H01G-013	V01-B04C
G01R,H01L,H01P-011	W02-A07B1
G01R,H01Q-001	W02-B08A
G01R,H04B-003/46-48	W01-C08C
	W02-C01D
G01R-001,015,035	S01-H
G01R-001/06-067	S01-H03B
G01R-001/06-073	S01-H03
G01R-001/073	S01-H03A
G01R-001-009	T01-A
G01R-011	S01-B
G01R-013	S01-C
G01R-013/20-34	S01-C01
G01R-015	S01-H07
G01R-015/02-07	S01-H02
G01R-015/20	S01-D01D1
G01R-017	S01-F
G01R-017/02-08, 20,22	S01-F09
G01R-017/10-18	S01-F01
G01R-019	S01-D01
G01R-019/02-03	S01-D01A1
G01R-019/04	S01-D01A3
G01R-019/04-12	S01-D01A
G01R-019/14	S01-D01B
G01R-019/145-155	S01-D01B1
G01R-019/165-17	S01-D01B5
G01R-019/18	S01-D01C
G01R-019/18-20	S01-D01C1A
G01R-019/18-20, 25-257	S01-D01C1
G01R-019/22	S01-D01C5
G01R-019/25-257	S01-D01C1B
G01R-019-029	S01-D
G01R-021,022	S01-D02
G01R-023	S01-D03
G01R-023/06-09,12	S01-D03A
G01R-023/10	S01-D03B
G01R-023/16-20	S01-D03C
G01R-025	S01-D04
G01R-027	S01-D05
G01R-027/02-22	S01-D05B

G01R-027/26	S01-D05A
G01R-027/28-32	S01-D05C
G01R-029/02-033	S01-D06
G01R-029/06	S01-D08A
G01R-029/06,26	S01-D08
G01R-029/08,10	S01-D07B
G01R-029/08-14	S01-D07
G01R-029/10	S01-D07B1
G01R-029/12,14	S01-D07A
G01R-029/26	S01-D08B
G01R-031	S01-G
	V04-R06
G01R-031/02-06	S01-G04A
	S01-G04C
G01R-031/02-07	S01-G04
G01R-031/08-11	S01-G05
G01R-031/12-20	S01-G03
G01R-031/24,25,	V05-L07E
G01R-031/24-25	S01-G02A
G01R-031/24-26	S01-G02
G01R-031/26-27	S01-G02B
G01R-031/28-3163	S01-G01C1
G01R-031/28-318	S01-G01
G01R-031/28-3193	S01-G01A
	S01-G01B
G01R-031/316-3163	S01-G01C
G01R-031/317	U21-C03D1
G01R-031/3177	S01-G01A5
G01R-031/327-333	S01-G10
G01R-031/34	S01-G07
G01R-031/36	S01-G06
	X16-H
G01R-033	S01-E
G01R-033/02-10	S01-E01
G01R-033/032	S01-E01C
G01R-033/035	S01-E01A
G01R-033/06	S01-E01B
G01R-033/12-18	S01-E02X
G01R-033/12-64	S01-E02
G01R-033/20-567	S01-E02A3
	S01-E02A8
	S01-E02A9
G01R-033/20-64	S01-E02A
G01R-033/24-465	S01-E02A1
G01R-033/30,31	S01-E02A1A
G01R-033/32-38	S01-E02A8A
G01R-033/38-389	S01-E02A8E
G01R-033/48-58	S01-E02A2
G01R-033/56-567	S01-E02A2A
	S01-E02A8C
G01R-035	S01-H01
G01S	W06-A
	W06-B01B1
	W06-B02E
	X22-E06
G01S-001	W06-A01
G01S-001/68	W06-A01C
G01S-003	W06-A02
G01S-003/02-74	W06-A02A
G01S-003/78-789	W06-A02C
G01S-003/80-82,86,	W04-Y03G3
G01S-003/80-86	W06-A02E
G01S-005	W06-A03
G01S-007	W06-A04E9
G01S-007,-007/28	W06-A04G5
G01S-007,-007/282	W06-A04G1
G01S-007,-007/285-34	W06-A04G3
G01S-007,-007/292	W06-A04E5
G01S-007,-007/40	W06-A04E3C
G01S-007,013	W06-A04
G01S-007,-013	W06-A04G
G01S-007,-013,H01Q	W06-A04G7
G01S-007,013/02-72	W06-A04A
G01S-007,013/06-48	W06-A04A1
G01S-007,013/50-64	W06-A04A2
G01S-007,013/74-84	W06-A04B
G01S-007,015	W06-A05
G01S-007,015,H04R	W06-A05C7
G01S-007,017	W06-A06
G01S-007/00-51	W06-A06C
G01S-007/04-26	W06-A04C
G01S-007/28-292	W06-A04D
G01S-007/295,298	W06-A04E3E
G01S-007/295,298,40	W06-A04E3
G01S-007/36	W06-A04E1C
	W06-A05C8
G01S-007/36,38	W06-A04E1
G01S-007/40	W06-A04E3A
G01S-007/495	W06-A06C8
G01S-007/497	W06-A06C5
G01S-007/51	W06-A06C3
G01S-007/537,-015	W06-A05C8
G01S-007/56-52,-015	W06-A05C3A
G01S-013	W06-A04H
	W06-A04X
G01S-013,-013/90	W06-A04J
G01S-013/32-40,536, 82-84	W06-A04F
G01S-013/89,90	W06-A04H3
G01S-013/91,92	W06-A04H7
G01S-013/93	W06-A04H1K
G01S-013/94	W06-A04H1
G01S-013/95,G01W-001	W06-A04H2
G01S-015	W06-A05C7
G01S-015/02	W06-A05D
G01S-015/04-46	W06-A05D1
G01S-015/50-62	W06-A05D2
G01S-015/66	W06-A05H5
G01S-015/74	W06-A05B
G01S-015/88	W06-A05H
G01S-015/89	W06-A05H3
G01S-015/93	W06-A05H1K
G01S-015/96	W06-A05H1C
G01S-017/02	W06-A06D
G01S-017/06-46	W06-A06D1
G01S-017/50-58	W06-A06D2
G01S-017/66	W06-A06H5
G01S-017/74	W06-A06B
G01S-017/88	W06-A06H
G01S-017/89	W06-A06H3
G01S-017/93	W06-A06H1K
G01S-017/95	W06-A06H2
	W06-A06H9
G01S-017/96	W06-A06H9
G01S-019	W06-A03A5
G01S-019/13-37	W06-A03A5R
G01S-019/03-12,41	W06-A03A5A
G01S-019/42-51	W06-A03A5C
G01T	S03-G
G01T-001	S03-G02
G01T-001/02-15	S03-G02A
G01T-001/16-28	S03-G02B
G01T-001/18	S03-G02B2A
G01T-001/18-185,22-28	S03-G02B2
G01T-001/185	S03-G02B2C
G01T-001/20-208	S03-G02B1

G01T-001/24	S03-G02B2G
G01T-001/28	S03-G02B2E
G01T-001/29	S03-G02C1
G01T-001/29-40	S03-G02C
G01T-001/30	S03-G02C5
G01T-001/32	S03-G02C1A
G01T-001/34	S03-G02C1C
G01T-001/36-40	S03-G02C3
G01T-003	S03-G01C
G01T-003,005	S03-G01
G01T-005	S03-G01A
G01V	S03-C
G01V-001	S03-C01
G01V-001/02-157	S03-C01A
G01V-001/16-26	S03-C01B
G01V-001/28-37	S03-C01X
G01V-001/38-393	S03-C01C1
G01V-001/38-40	S03-C01C
G01V-001/40	S03-C01C5
G01V-003	S03-C02
G01V-003/02-06	S03-C02A
G01V-003/08-11	S03-C02B
G01V-003/12-40	S03-C02X
G01V-003/175	S03-C02F
G01V-005	S03-C03
G01V-007-011	S03-C04
G01V-008/02	S03-C04A
G01V-008/10-26	S03-C08
G01V-009/04	S03-C08A
	S03-C08C
G01V-013	S03-C10
G01W	S03-D
G01W,G08G	T07-G05
G01W-001/14	S03-D02A
G02	P81
G02B,H01J-029/89	V05-D07C5A
	V05-D07C5E
	V05-D07C5
G02B-001	P81-A
	V07-F02
G02B-003	P81-A01
G02B-005	P81-A
	V 07-F02
G02B-003,-005	V07-F02A
G02B-003,006/32	V07-G04
G02B-005	V07-F02B
G02B-005/32	V07-F02C
G02B-006	P81-A09
	V07-F01
	V07-F01A3A
	V07-F01A3C
	V07-G02
	V07-G03
	V07-G10A
	V07-H04
G02B-006,H01J-029/89	V05-D07C5C
G02B-006/04-08	V07-F01A1B
G02B-006/06	V07-F01A1C
G02B-006/12	V07-F01A5S
G02B-006/13	V07-F01A5A
G02B-006/14	V07-F03
G02B-006/24-42	V07-G
G02B-006/245,25	V07-G01
G02B-006/255	V07-G10B
G02B-006/28	V07-G10E
G02B-006/28,	V07-G11
G02B-006/30	V07-G10D
G02B-006/42	U12-A01C
	V07-G10C
G02B-006/44	V07-F01B1A
	V07-F01B
	V07-H
	V07-K01
G02B-006/44,46	V07-H04A
G02B-007	P81-A
	P81-T01
G02B-009 -015	P81-A01
G02B-017	P81-A
G02B-019	P81-A13
G02B-021	P81-A50C
G02B-023	P81-A50A
G02B-025	P81-A50C
G02B-026	P81-A50J
	V07-K
G02B-026,H04N-001/04-20	S06-D03
G02B-026/02	V07-G15
	V07-K01B
G02B-026/06	V07-K02
G02B-026/08,10	V07-K05
G02B-027/10	V07-G10E
G02B-027/56	V07-G11
G02C	P81-A50G
	X27-A02D
G02C,H04R-025	W04-Y05A5
G02F	P81-A50J
G02F,G02B-026	V07-K
G02F,H04B-010	W02-C04A6
G02F,H04N-005/74,-9/31	W04-Q01B
	W04-Q01E7
G02F-001	V07-K01A
	V07-K01C
	V07-K10
	W04-Q01B5
	T03-B02B7E
	V07-K01C2
	V07-K01C1
	V07-K01
	V07-K02
	W02-C04A5A
G02F-001/03	U14-K04
G02F-001/09	V07-K03
G02F-001/13	U14-K01
G02F-001/133	U14-K01A
G02F-001/133,	U14-K01A2C
G02F-001/133,134	U14-K01A1
G02F-001/1335	U14-K01A1C
G02F-001/1337	U14-K01A1A
G02F-001/1339	U14-K01A1D
G02F-001/1341	U14-K01A1J
G02F-001/1343	U14-K01A1B
G02F-001/1345	U14-K01A4B
G02F-001/135	U14-K01A2D
G02F-001/136	U14-K01A2
	U14-K01A2B
	U14-K01A2A
G02F-001/137	U14-K01A1G
G02F-001/15	U14-K02
G02F-001/153,155,157,161	U14-K02A
G02F-001/163	U14-K02B
G02F-001/167	U14-K03
G02F-001/23	V07-K04
G02F-001/29-33	V07-K05
G02F-001/313,025	U12-A02C3
G02F-001/35-39	V07-K10B

G02F-003	V07-K06
G02F-007,H01L-039	U21-A03G
G03B	P82
G03B,G03G	S06-B04A1
G03B,H04N-005/225	W04-M01C
G03B-001	S06-B04B
	S06-B08A
G03B-001,017	S06-B08B
G03B-001,027	S06-B04
G03B-003	S06-B01B
G03B-003,013	S06-B01
G03B-003,013,G11B	S06-B01B2B
G03B-003/02	S06-B01B1
G03B-005	S06-B01E
G03B-007	S06-B02A
	S06-B02B
	S06-B02C
	W04-M01D5C
G03B-007,009	S06-B02
G03B-007/26	S06-B08C
G03B-009	W04-M01C7
	W04-M01C8
G03B-011	W04-M01C3
G03B-011,H01L-027	W04-M01C3E
G03B-013	S06-B01A
	W04-M01D
	W04-M01D3C
G03B-015/03-05	S06-B03
G03B-015/04	S06-B03B
G03B-015/05	S06-B03A
G03B-021,023	S06-B06
G03B-021/56-62	W04-Q01F
	W04-Q01F5
G03B-027	S06-B04A
G03C	P83
G03D-H	P84
G03F	V05-F08C
G03F-007	U11-A06
	V04-R01A
G03F-007/004	V04-R01A1
G03F-007/16	U11-C04A1B
G03F-007/20	U11-C04B3
	U11-C04B1
	U11-C04B2
	U11-C04C
	U11-C04E1
G03F-007/20-24	V04-R12
G03F-007/213	U11-C04E1A
G03F-007/30	U11-C04A1C
G03F-007/32	U11-A11
G03F-007/36	U11-C04A1D
G03F-007/38,40	U11-C04A1A
G03F-009	V04-R10
G03G	S06-D/K
G03G-005	S06-E01
G03G-005,013/04,015/04	S06-E03G
G03G-005/04-09	S06-E01A
G03G-005/06-07	S06-E01A1
G03G-005/08	S06-E01A2
G03G-005/09	S06-E01A3
G03G-005/10,14	S06-E01B
G03G-005/12,013/01, 015/01	S06-K01
G03G-005/16,013/04,015/04, G03G-009	S06-E04C
G03G-009,013/06, 015/06	S06-E04A9
G03G-009,013/06-10, G03G-009,013/08-12, G03G-009/08-10	S06-E04C1
G03G-009/08-10,013/08-09, G03G-009/12-14	S06-E04C2
	S06-E04B
G03G-009/16	S06-E04C9
G03G-013,015	S06-E06D
	S06-E
G03G-013,015, 021/18	S06-E
G03G-013/02,015/02	S06-E02
	S06-E02A
G03G-013/04,013/054	S06-E03X
G03G-013/04,015/04	S06-E03G3
	S06-E03A
	S06-E03B
	S06-E03D
	S06-E03E1
	S06-E03F
	S06-E03G3
	S06-E03G1
G03G-013/04,015/04, 015/043	S06-E03E
G03G-013/04,015/041	S06-E03C
G03G-013/04-05, 015/04-05	S06-E03
G03G-013/06,015/06	S06-E04A1
	S06-E04A2
G03G-013/10-11,015/10-11	S06-E04B
G03G-013/14-18,015/14-18	S06-E05
G03G-013/20,015/20	S06-E06
G03G-015,021/02	S06-K07C1
G03G-015,021/04	S06-K07
G03G-015/04,015/054	S06-E03X
G03G-015/23,021	S06-K02A
G03G-015/36	S06-K07A4
G03G-016,019	S06-E07
G03G-017	S06-E08
G03G-021	S06-K06
	S06-K02
	S06-K04
G03G-021/06,021/08	S06-K06B
G03G-021/10,021/12	S06-K06C2
G03G-021/14	S06-K07A
G03G-021/20	S06-E01D
G03H	V07-M
G04	S04-C07
	S04-E
G04B	S04-A
G04B-001,013-018	S04-A01
G04B-003/02-06	S04-B02A
G04B-003-011,027	S04-A03
G04B-019/02,019/28-34, G04B-019/04-21	S04-A02A
G04B-019/22-26	S04-A02B
G04B-019-025	S04-A02
G04B-021/08,047/04	S04-B05A
G04B-025/02-04	S04-B07
G04B-025/06	S04-B08
G04B-029-033	S04-A05
G04B-037/22	S04-A04B
G04B-037-039	S04-A04
G04B-037-039,043	S04-A04A2
G04B-043	S04-A04A1
G04B-045-049	S04-A09
G04C,G04G	S04-B

G04C-001,003/14, 003/16,010	S04-B01
G04C-003/02-06	S04-B02
G04C-003/14,16	S04-B01B
G04C-009,G04G-003,5	S04-B03
G04C-010	S04-B01A
G04C-011,013,015,	S04-B01A
G04C-017,019,	S04-B06
G04C-021,G04G-013	S04-B05
G04C-023,G04G-015	S04-C
G04D	S04-D
G04F-001-005	S04-C09
G04F-007-013	S04-C03
G04G,G11B,	W04-E04C
G04G,G11B,H04N	W04-E04C
G04G-007	S04-B06
G04G-009,011	S04-B04
G05B	T06
G05B,G06F,G07F	T05-H08C
	T05-H08C1
G05B-001	T06-A01
G05B-005,-006	T06-A02
G05B-007,-009	T06-A03
G05B-011	T06-A06
G05B-011/01	T06-A06A
G05B-011/06-12	T06-A06A1A
G05B-011/14-18	T06-A06A1D
G05B-011/26-30,32	T06-A06A2
G05B-011/36-42	T06-A06A9
G05B-011/44-60	T06-A06B
G05B-013	T06-A05
G05B-015	T06-A07A
G05B-017	T06-A07B
G05B-019/00,02	T06-A04
G05B-019/04	T06-A04B
G05B-019/042-16	T06-A04B1
G05B-019/18	T06-A04A
G05B-019/19,401,402, G05B-019/21-39	T06-A04A1
G05B-019/40	T06-A04A9
G05B-019/4069	T06-A04A6
G05B-019/408-4099	T06-A04A4
G05B-019/414,4155	T06-A04A2
G05B-019/41-4105	T06-A04A5
G05B-019/418	T06-A04A2A
	T06-A04B7
G05B-019/42-427	T06-A04B5
G05B-019/43,44,46	T06-A04B3
G05B-021	T06-A10
G05B-023	T06-A08
G05B-024	T06-A20
G05D	T06-B
G05D-001	T06-B01
	T07-D
G05D-001/02,03	T06-B01A
	T07-D01
G05D-001/04-08	W06-B03F
G05D-001/04-08,12	T06-B01B
G05D-001/10	T06-B01X
G05D-001/12	W07-A01C
G05D-001/14	X22-X12
G05D-003	T06-B02
G05D-003/10	T06-B02A
G05D-003/12-20	T06-B02B
G05D-005	T06-B03
G05D-007	T06-B04
G05D-007/01	T06-B04A
G05D-007/03	T06-B04X
G05D-007/06	T06-B04B
G05D-009	T06-B05
G05D-011	T06-B08
G05D-011/02	T06-B08A
G05D-011/03-12	T06-B08A9
G05D-011/13	T06-B08A1
G05D-011/16	T06-B08X
G05D-013/02-06	T06-B09
G05D-013/08-60	T06-B09A
G05D-013/62	T06-B09B
G05D-015	T06-B10
G05D-016/02,20	T06-B11
G05D-016/04-12	T06-B11A
G05D-016/14-18	T06-B11X
G05D-017,-019	T06-B12
G05D-021	T06-B06
G05D-022,024,025	T06-B07
G05D-023	T06-B13
G05D-023/01-13	T06-B13A
G05D-023/185	T06-B13X
G05D-023/19	T06-B13B
G05D-023/20-26	T06-B13B1
G05D-023/27-275	T06-B13B9
G05D-023/30-32	T06-B13B2
G05D-027	T06-B14
G05D-029	T06-B20
G05F	U24-E
G05F-001/10	U24-E02
G05F-001/12-455	U24-E02A
G05F-001/46-62	U24-E02B
G05F-001/625-656	U24-E02C
G05F-001/66	U24-E02D
G05F-001/67	U24-E02D1
G05F-001/70	U24-E02D2
G05F-003	U24-E01
G05F-005	U24-E03
G05F-007	U24-E04
G05G	T06-C
G05G-001,-003	T06-C01
G05G-005	T06-C02
G05G-007,-009,-011,-13	T06-C03
G05G-007,-011	T06-C03A
G05G-009,-013	T06-C03B
G05G-015-025	T06-C09
G06-007/30-46	T02-A04B5
G06C	T01-A
G06D	T01-B
G06E	T01-M06D
	T02-A03B
G06F,G11B,H04B, H04N	W03-G03A1
	W03-G06
G06F-001/02	T01-J17
G06F-001/04-14	T01-K
G06F-001/08	T01-K01
G06F-001/16	T01-L02
G06F-001/20	T01-L02A
G06F-001/26-32	T01-L01
G06F-001/30	T01-L01B
G06F-003	T01-C
G06F-003/02	T01-C02
G06F-003/023	T01-C02A
	T04-F01
G06F-003/023-027	T01-C02A1
G06F-003/03	T01-C02B
G06F-003/033	T01-C02B1
G06F-003/05	T01-C08

G06F-003/06	T01-C01
G06F-003/09	T01-C05
G06F-003/12	T01-C05A
G06F-003/13	T01-C05B
G06F-003/13,	S06-K99E
G06F-003/14	T01-C04
G06F-003/147	T01-C04B
G06F-003/153	T01-C04A
G06F-005	T01-D
	T01-D01
	T01-D01A
	T01-D09
G06F-005/01	T01-D03
G06F-005/06	T01-D04
G06F-007	T01-E
G06F-007/06-36	T01-E01
G06F-007/10-12	T01-E01B
G06F-007/38,40,48	T01-E02
G06F-007/42,50	T01-E02A
G06F-007/44,52	T01-E02B
G06F-007/48,49,544,56	T01-E02X
G06F-007/58	T01-E04
G06F-007/60-72	T01-E03
G06F-009	T01-F
	T01-H07C3E
G06F-009/04-06	U21-C03B9
G06F-009/22	T01-F01
G06F-009/24	T01-F01B
G06F-009/26	T01-F01C
G06F-009/28	T01-F01A
G06F-009/30-318	T01-F03
G06F-009/32-36	T01-F03A
G06F-009/38	T01-F03B
G06F-009/40-42	T01-F04
G06F-009/44	T01-F05
	T01-F07
G06F-009/445	T01-F01B
	T01-F05B
G06F-009/45	T01-F05A
G06F-009/455	T01-F05G3
G06F-009/46	T01-F02
	T01-F05G5
G06F-011	T01-G
	T01-G11X
G06F-011/08	T01-G01A
G06F-011/10	T01-G01A1
G06F-011/14-20	T01-G03
G06F-011/16	T01-G05B
G06F-011/22	T01-G02
G06F-011/24	T01-G02B
G06F-011/25	T01-G
G06F-011/263	T01-G07A
G06F-011/267	T01-G02A1
G06F-011/27	T01-G02A2B
G06F-011/277	T01-G02A2C
G06F-011/30	T01-G05C
G06F-011/34	T01-G05C1
G06F-012	T01-H
G06F-012,G11C,	W04-P01C8
G06F-012/02-04	T01-H01
G06F-012/06	T01-H01A
G06F-012/08-12	T01-H03A
	T01-H03B
G06F-012/14	T01-H01C2
	T01-H01C1
G06F-012/16	T01-H01C3
	T01-H01C4
G06F-013	T01-H
	T01-N01D
G06F-013/10	T01-H05
G06F-013/12	T01-H05A
G06F-013/14	T01-H05B
G06F-013/16-18	T01-H05B1
G06F-013/20-34	T01-H05B2
G06F-013/36-378	T01-H05B3
G06F-013/38	T01-H07
G06F-013/40	T01-H07A
G06F-013/42	T01-H07B
G06F-015	T01-J
	S05-D06
G06F-015/02	T01-J01
G06F-015/16	T01-M02
	U11-G
G06F-015/18	T01-J16
	U21-C03B1B
G06F-015/76	T01-M
	T01-M02C3
G06F-015/78	T01-M01
G06F-015/80	T01-M02C
G06F-015/82	T01-M03
G06F-017	S05-G02G1
G06F-017,-163,-171	T01-J07D
	T01-J07D3
G06F-017,-165	T01-J07D3A
G06F-017/10	T01-J04
G06F-017/11-13	T01-J04A
G06F-017/14	T01-J04B
G06F-017/14,H03H-017	W04-Y03G1
G06F-017/15	T01-J04B2
G06F-017/16	T01-J04C
G06F-017/17	T01-J04D
G06F-017/18	T01-J03
G06F-017/20	T01-J18
	W04-V
G06F-017/21-27	T01-J11A
G06F-017/28	T01-J14
G06F-017/30	T01-J05B
	T01-J05C
G06F-017/40	T01-J07A
G06F-017/50	T01-J15
G06F-018	S05-G02G2
G06F-019/00	T01-J
	T01-J07B1
G06F-101/00	T01-J17
G06F-151/00	T01-J05A
G06F-153/00	T01-J05A
G06F-155/00	T01-J05A
G06F-157/00	T01-J05A1
G06F-159/00	T01-J06A
G06F-161/00	T01-P02
G06F-163/00	T01-J06B
G06F-165/00	T01-J06B
G06F-167/00	T01-J
	T01-J07
G06G	T02-A
G06G-001	T02-A01
G06G-003,005	T02-A02
G06G-007	T02-A04
G06G-007/02-10	T02-A04X
G06G-007/12	T02-A04B
G06G-007/16-164	T02-A04B1
G06G-007/18-188	T02-A04B2
G06G-007/20,24,25	T02-A04B3
G06G-007/26,28	T02-A04B4

G06G-007/48	T02-A04A
G06G-007/52,62-635	T02-A04A1
G06G-007/60-80	T02-A04A9
G06G-009,G06E	T02-A03
G06J	T02-B
G06K	S06-K07
	T04-L
	T04-X
G06K,G07F-007	T05-H02C5X
G06K,G11B-007,	
G06K,G11B-023/40	T03-H02A3
G06K-001,-007	T04-A
G06K-001/02-10, 20-22,-007/02-06, -021	T04-A01
G06K-001/12	T04-A02
G06K-005	T04-B
G06K-007	T04-A03X
G06K-007/08	T04-A03A
G06K-007/08,	T05-H02C5A
G06K-007/08-14	T04-A03
G06K-007/10-14	T04-A03B
	T05-H02C5B
G06K-009	T04-D
G06K-009,-011	T04-F04
G06K-009/18	T04-D01
G06K-009/20-34	T04-D02
G06K-009/24	T04-D02A
G06K-009/36-60	T04-D03
G06K-009/40	T04-D03A
G06K-009/48,52	T04-D03B
G06K-009/62-82	T04-D04
G06K-011	T04-M
G06K-011/02-04	T04-E
G06K-011/06-20	T04-F
	T04-F02B2
	T04-F02C
G06K-011/18	T04-F02B1A
G06K-011/18-20	T04-F02A1
	T04-F02B3
	T04-F05
G06K-013	S06-K03A
	T04-J
G06K-015	S06
G06K-019	T04-C
	T05-H02C5C
G06K-019/07	W02-C02G7
G06K-019/07-077	T04-K
	T04-K01
G06K-019/12	T04-C01
G06K-019/14-16	T04-C02
G06M-001,-003	T05-B
G06M-003	T05-B01
G06M-007	T05-A01
G06M-007-011	T05-A
G06M-009-011	T05-A02
G06Q	T01-J05A
	T01-N01A
G06Q-010	T01-J05A2
	T01-N01A2
G06Q-020	T01-N01A1
G06Q-030	T01-N01A2A
G06Q-040	T01-J05A1
	T01-N01A
G06Q-050	T01-N01A2
G06T	T01-J10
G06T-003/40-60	T01-J10B3A
G06T-009/00-40	T01-J10D
G06T-015/00-70, 17/00-17/50	T01-J10C4
G06T-03/00-60	T01-J10B3
G06T-05/00-50	T01-J10B1
G06T-07/00-60	T01-J10B2A
G06T-13/00	T01-J10C5
G07	T05
G07B	T05-C
G07B-001-011	T05-C01
G07B-011,G07C-009	T05-D01A1
G07B-013,-015	T05-C03
G07B-015,G07C-009	T05-D02
G07B-015/00	T07-A03A
	X22-X07
G07B-015/01	T07-A03E
G07B-017	T05-C05
G07C	W06-B01B6
G07C-001	T05-G03
G07C-001/30	T05-G03A
G07C-001-007	T05-G
G07C-003	T05-G02
G07C-005	T05-G01
G07C-009	T05-D
G07C-009,G07B-011	T05-D01A
G07C-011	T05-E
G07C-013,-015	T05-F
G07D	T05-K01
	T05-K02
G07D-005,-007	T05-J
G07D-009	T05-L
G07F	T05-H
G07F,H04N-007/10, 173	W03-A16C5J
G07F,H04N-007/173	W02-F10J
	W02-F10N5
G07F-003	T05-H03
G07F-005	T05-H01
G07F-007	T05-H02
G07F-007/04	T05-H02A
G07F-007/06	T05-H02E
G07F-007/08-12	T05-H02C5A
	T05-H02C5B
	T05-H02C5C
	T05-H02C
G07F-011	T05-H04
G07F-013,-015	T05-H06
G07F-017	T05-H05
G07F-017/02-18	T05-H05C
G07F-019	T05-L03
G07F-17/30-38	T05-H05E
G07G-001	T05-L01
G07G-001,H04L	T05-L01D
G07G-001-005	T05-L
G08B	W05
G08B,H04N-007/18	W02-F01A5
G08B-001	W05-A01
G08B-003	W05-A02
G08B-005	W05-A03
G08B-005/36-38	W05-A03A
G08B-006	W05-A01A1
G08B-007	W05-A04A
G08B-007,009	W05-A04
G08B-009	W05-A04C
G08B-013	W05-B01
G08B-013,G11B-027	W04-J01C
G08B-013/02	W05-B01B
G08B-013/04	W05-B01G
G08B-013/06-12	W05-B01B1

G08B-013/14	W05-B01B2
G08B-013/16	W05-B01C1
G08B-013/18-193	W05-B01C2
G08B-013/194-196	W05-B01C5
G08B-013/20	W05-B01X
G08B-013/24	W05-B01A
G08B-013/26	W05-B01A1
G08B-015	W05-B01D
G08B-017	W05-B02
G08B-017/02	W05-B02C
G08B-017/06	W05-B02D
G08B-017/10	W05-B02A
G08B-017/103-107	W05-B02A1
G08B-017/11	W05-B02A5
G08B-017/11-113	W05-B02A3
G08B-017/117	W05-B02A5
	W05-B05B4
G08B-017/12	W05-B02B
G08B-019	W05-B03
G08B-021/02-08	W05-B07
G08B-021/10	W05-B08
G08B-021/12-14	W05-B07L
G08B-021/16	W05-B02A
	W05-B07L
	W05-B08J
G08B-021/18-24	W05-A
	W05-B
G08B-023	W05-B04
G08B-025	W05-B05
G08B-025/06	W05-B05B1
G08B-025/08	W05-B05B3
	W05-B05G1
	W05-B05G5
G08B-025/10	W05-B05B2
	W05-B05B4
	W05-B05G5
G08B-025/14	W05-B05
G08B-026	W05-B05A5
G08B-027	W05-B05A7
G08B-029	W05-C
G08B-029/04	W05-C01A
G08B-029/06-08	W05-C01B
G08B-031	W05-C02C3
G08C	W05-D
G08C,B64	W05-D07D
G08C,H02J-13/00	W05-D07F
G08C,H04L	W05-D06F
G08C-015	W05-D02
G08C-017	W05-D06A1
	W05-D06T
G08C-017/02, H04B 1/59	W05-D08G
G08C-017/02	W05-D06A1A
	W05-D06G5
G08C-017/02, H04B 1/59	
	W05-D06A1A
	W05-D08G
G08C-017/04	W05-D06A1B
	W05-D06T1
G08C-017/06	W05-D06A1B
	W05-D06T5
G08C-019	W05-D
G08C-019,H04M-011	W05-D06G1
G08C-019/02-14	W05-D08A
G08C-023	W05-D06M
G08C-023,H04B-011	W05-D06A5
G08C-023/02	W05-D06A5
	W05-D06M
G08C-023/04	W05-D06A3
G08C-023/06	W05-D06C
G08C-025	W05-D05
G08G	T07
G08G-001	T07-A
	T07-H
G08G-001,-001/014	T07-F
G08G-001,-001/054	T07-A03C
G08G-001,G09F	T07-B05C
	T07-B05E
G08G-001/002	T07-A01B1
G08G-001/015	T07-A01D
G08G-001/016	T07-E
G08G-001/02-048	T07-A01B
G08G-001/07-087	T07-C
G08G-001/087	T07-C07
G08G-001/09-096	T07-B
G08G-001/095	T07-B05A
G08G-001/0955	T07-B05A1
G08G-001/096	T07-B05A5
G08G-001/0965	X22-E14
G08G-001/097	T07-C05
G08G-001/127	T07-A05B
G08G-001/14	T07-F
G08G-003	W06-C
G08G-005	W06-B
	W06-A04H7
G08G-015	W06-B01C8
G09B	P85-A
	W04-W
G09B-003	P85-A07
G09B-007	W04-W01
G09B-009	P85-A05A
	W04-W07A
G09B-011	P85-A01C
G09B-015	P85-A01J
G09B-017	P85-A01C
G09B-023-027	P85-A05
	W04-W07C
G09B-029	P85-A50E
G09C	P85-C
G09D-001	P85-A50A
G09D-003	P85-A50C
G09F	P85-E
	W05-E
G09F,H04M-001	W01-C01A2
G09F,H04N-005/74	W04-Q01K
G09F,H05K	W05-E05G
G09F-007	P85-E01
G09F-009	W05-E01
	W05-E02
G09F-011	W05-E03
G09F-013	W05-E03
G09F-013/16	T07-B05G
	X22-B03
G09F-013/17	X22-B03
G09F-015-017	P85-E01
	P85-T01
G09G	T04-H
G09G,G11B,H04B, H04N	W03-G05G
G09G-001	T04-H01
G09G-001/06-18	T04-H01A
G09G-001/20-28	T04-H01B
G09G-001/28	T04-H01B1
G09G-003	T04-H03
	W04-M01D3C
G09G-003,-005	T04-H03D
G09G-003,H01J-017/36	V05-A01G

G09G-003/04-19	T04-H03A
G09G-003/20-38	T04-H03B
G09G-003/28	T04-H03C4
G09G-003/30-32	T04-H03C3
G09G-003/36	T04-H03C2
G09G-005/22-32	W03-A10C
G10B	P86-A01C
	W04-U02C
G10D-001-003	P86-A03
G10D-007-009	P86-A01A
G10D-011	P86-A01C1
G10D-013	P86-A05
G10D-015-017	P86-A
G10F	P86-A99
G10G	P86-A30
G10G,G10H	W04-U07
G10G-001/04,G10H	W04-U06
G10H	W04-U
G10H-001	W04-U04
G10H-001/02-16	W04-U03
G10H-001/18-30,34	W04-U04A
	W04-U04J
G10H-001/32	W04-U04G
G10H-001/36-42	W04-U04C
G10H-003	W04-U02
G10H-003,H04R	W04-U02A1
G10H-005	W04-U01A
G10H-005,-007	W04-U01
G10H-007	W04-U01C
G10K	P86-E
G10K-011/178	W04-V07
G10L	W04-V
G10L,G11B,H03M	W04-G01F
G10L,H03M,	W02-C06C
G10L,H04R-025	W04-Y03G5
G10L-013	W04-V02
	W04-V04C1
G10L-015	W04-V01
	W04-V04A
G10L-015/26	W04-V04A6
G10L-017	W04-V04A3
G10L-019	W04-V05G
G10L-019/02	W04-V05G5
G10L-019/04-113	W04-V05G3
G10L-019/12-135	W04-V05G3A
G10L-019/16-22	W04-V05G
G10L-019/24	W04-V05G8
G10L-021	W04-V05
G10L-021/02	W04-V05E
G10L-021/04	W04-V05J
G10L-021/043-049	W04-V05J5
G10L-021/055-057	W04-V05
G10L-021/06-18	W04-V04
	W04-V05
G10L-025	W04-V04
	W04-V05
G10L-025/78-84	W04-V04A1
G11B	T03
G11B,A63	W04-X03A
G11B,H01J-037	T03-C03
G11B,H01L-039	T03-C07
G11B,H02M,H04B	W03-G02
G11B,H04N-005/335, -005/781,101	W04-M01B1A
G11B,H04N-005/781	W04-B14
G11B,H04N-005/84-85	W04-C
G11B,H04N-005/913	W04-F01L
G11B,H04N-007/173	W02-F10K
G11B,HO4N	W04-E04C5E
	W04-E20
G11B-003	W04-A
G11B-003/02-42	W04-A03
G11B-003/44-56, 60,61	W04-A02
G11B-003/58,68-90	W04-A01
G11B-005	T03-A
G11B-005,H01L-039	T03-A01E
	T03-A06K
G11B-005/02-09	T03-A06
G11B-005/024	T03-A06E
G11B-005/027	T03-A06A
	T03-A06B
G11B-005/03	T03-A06G
G11B-005/035	T03-A06D
G11B-005/09	T03-A06C
G11B-005/10-115	T03-A03J7
	T03-A04A1D
G11B-005/10-40	T03-A03
	T03-A04A1
G11B-005/127	T03-A03B
	T03-A03J5
	T03-A04A1C
G11B-005/127-153,33	T03-A03J1A
G11B-005/133	T03-A03J1C
G11B-005/133-153	T03-A03J1
G11B-005/187	T03-A03J3
G11B-005/187-21	T03-A03J3A
G11B-005/23	T03-A03F1
	T03-A03J3C
G11B-005/265-29	T03-A03A
G11B-005/31	T03-A03E
G11B-005/325	T03-A06E1
	T03-A03J1E
G11B-005/33-35	T03-A03C
G11B-005/37	T03-A03C5
G11B-005/39	T03-A03C3
	T03-A03C9J
G11B-005/40	T03-A03
G11B-005/41	T03-A04B
G11B-005/455	T03-A04A5
G11B-005/465	T03-A04B1
G11B-005/48-60	T03-A05
G11B-005/49,50	T03-A05C3
G11B-005/49,50,54	T03-A05C
G11B-005/53	T03-A05D
G11B-005/54	T03-A05C5
	T03-A05G
G11B-005/55	T03-A05B
G11B-005/55,584,596	T03-A05B1A
G11B-005/56	T03-A05A3
G11B-005/58	T03-A05A
	T03-A05C1
G11B-005/584,596	T03-A05A1C
	T03-A05A1G
G11B-005/588, -015/473	T03-A05A1D
G11B-005/588,592	T03-A05A1A
G11B-005/60	T03-A05C1A
G11B-005/627, -023/26	T03-A01H
G11B-005/66	T03-A01F
G11B-005/68-618	T03-A01A8C
G11B-005/68-718	T03-A01A7
	T03-A01A8

G11B-005/702	T03-A01A3
G11B-005/704	T03-A01B1
G11B-005/704,71,72	T03-A01B
G11B-005/706	T03-A01A1A
	T03-A01A1C
G11B-005/706,714	T03-A01A1
G11B-005/708,71	T03-A01A5
G11B-005/71	T03-A01B5A
	T03-A01B5B
G11B-005/712,714	T03-A01A1E
G11B-005/716,718	T03-A01A6
G11B-005/72	T03-A01B5C
	T03-A01B5D
G11B-005/73	T03-A01B1
G11B-005/74-82	T03-A01C
G11B-005/76	T03-A01C7
G11B-005/78	T03-A01C3
G11B-005/80	T03-A01C5
G11B-005/82	T03-A01C1
G11B-005/84	T03-A02
G11B-005/842-848	T03-A02A1
G11B-005/85	T03-A02A3
G11B-005/852	T03-A02A5A
G11B-005/855	T03-A02A
G11B-005/858	T03-A02A1
G11B-005/86	T03-A07B
G11B-007	T03-B
	W04-C
G11B-007/002	T03-B10
G11B-007/003	T03-B10E
G11B-007/0033	T03-B10C
G11B-007/0037	T03-B10A
G11B-007/004-006	T03-B05
	W04-C05
G11B-007/0065	T03-B12
G11B-007/007-013	T03-B01F
	W04-C01F
G11B-007/033	T03-B10C
G11B-007/037	T03-B10A
G11B-007/08-10	T03-B02A
G11B-007/12-22	T03-B02B
G11B-007/125	T03-B02A7
	T03-B02B1
G11B-007/125,135	T03-B02B7E
G11B-007/13	T03-B02B3
G11B-007/135	T03-B02B5
	T03-B02B6
	T03-B02B7
G11B-007/24	T03-B01
G11B-007/26	T03-B01E
G11B-009	T03-C
G11B-009,H01J-037	T03-C05
G11B-009-013,	W04-D
G11B-011,-013	T03-D
	T03-A06N
	W04-D
G11B-015	T03-E
G11B-015/02-03	T03-E05
G11B-015/04	T03-A07A1A
G11B-015/05-093	T03-E05A
G11B-015/087	T03-E05A1
G11B-015/093	T03-E05A3
	T03-E05A7
G11B-015/10	T03-E05B
G11B-015/26-295, 34-42	T03-E07
G11B-015/30-32	T03-E06
G11B-015/30-32, H02K	T03-E06A
G11B-015/43,44	T03-E04
G11B-015/46-54	T03-E03
G11B-015/467	T03-E03A7
G11B-015/52	T03-E03A5
G11B-015/52,-019/28, -27/19-32	T03-J03A1
G11B-015/54	T03-E03A1
G11B-015/60-64	T03-E02
G11B-015/60-70, -23/37	T03-E01
G11B-015/665	T03-E01C1
G11B-015/66-67	T03-E01C
G11B-015/675-68	T03-E01B
G11B-015/68	T03-E01B5
G11B-017	T03-F01
G11B-019	T03-F02
G11B-019,H02K	T03-F02C1
G11B-019/22	T03-F02C5
G11B-019/24,28	T03-F02A1
G11B-020	T03-P
G11B-020/02-08	T03-P02
G11B-020/10	T03-P01D
G11B-020/10-18	T03-P01
G11B-020/12	T03-P01F
	T03-B05F
G11B-020/12-16	T03-J03A3
	T03-J03A5
G11B-020/14-16	T03-J03C5
G11B-020/14-16,-027	T03-J03A
G11B-020/14-16, H03K	T03-J03C
G11B-020/18	T03-P01A
G11B-020/24	T03-P05
	W04-G01D
G11B-021	T03-G
	W04-V04E
G11B-021,H02K	T03-G02A1
G11B-021/08,10	T03-G02B
	T03-G02C
G11B-021/12,14,21	T03-G01
G11B-021/24	T03-G02A5
G11B-023	T03-H
G11B-023/037	T03-E01A
G11B-023/06,07	T03-H01C
G11B-023/08-107	T03-H01B
G11B-023/28	T03-H02A1C
G11B-023/40	T03-H02A1A
G11B-025	T03-M
G11B-025/04	T03-M01
G11B-025/06,08	T03-M02
G11B-027	T03-J03A5
	T03-J
	T03-K
	W04-H
	W04-J
G11B-027/02-06	T03-K01
	W04-H05E
G11B-027/10-32	T03-J01
	W04-H01
G11B-027/34	T03-K03
	W04-J03
G11B-027/36	T03-K07
	W04-J07
G11B-031	W04-K
G11B-033	T03-L
	W04-L

G11B-033/08	T03-L05N
	T03-L05S
G11C	U14
G11C,H03,H04B	W04-G01B
G11C-005	U14-C
G11C-005/06-12	U14-C01
G11C-005/14	U14-A09
G11C-007	U14-A07
G11C-007/06	U14-A07A
G11C-008	U14-A08B
	U14-A08
G11C-008/02	U14-A08A
G11C-011	U14-A03B5
G11C-011/02,08,12, 16,18,19	U14-A04
G11C-011/04,06	U14-A04X
G11C-011/13	U14-A03X
G11C-011/14,-019	U14-A01A1
G11C-011/14,15	U14-A04A
G11C-011/21	U14-A03
G11C-011/22	U14-A03F
G11C-011/23,26-30, 46,50,	U14-A03X
G11C-011/24	U14-A03B4
G11C-011/36,39,411	U14-A03A
G11C-011/401-406	U14-A03B4A
G11C-011/404,405,412	U14-A03B
G11C-011/408,415,418	U14-A08
G11C-011/409,416,419,	U14-A07
G11C-011/41	U14-A07C
G11C-011/411	U14-A03A1
G11C-011/412	U14-A03B1
G11C-011/42	U14-A02A
G11C-011/42,	U14-A02
G11C-011/44	U14-A03G
G11C-011/54	U14-B01
G11C-013/02,06	U14-A02B9
G11C-013/04	U14-A02B
G11C-013/04-08	U14-A02
G11C-014	U14-A03B9
G11C-015	U14-A05
G11C-016/02	U14-A06C
G11C-016/04	U14-A03B7
G11C-016/06	U14-A07B
G11C-016/06,	U14-A07
G11C-017	U14-A06
G11C-017/10,12	U14-A06B5
G11C-017/16,14	U14-A06B1
G11C-017/18	U14-A07
G11C-019	U14-A01
G11C-019/02	U14-A01A
G11C-020/18	W04-G01F1
G11C-027	U14-B
G11C-027/02	U21-B03
G11C-029	U14-D
G12B	S01-J
	S01-J03
	S02-G07C
G12B-001,011-017	S01-J02
G12B-009/02-06	S01-J01
G12B-011	S01-J02A
G21B-001	X14-A03
G21C	X14-B
G21C,D	X14-C
G21C-001/00	X14-A
G21C-001/02-03	X14-A01
G21C-001/04-28	X14-A02
G21C-001/30-32	X14-A09
G21C-003/02	X14-B04
G21C-003/04-38	X14-B04X
G21C-003/42-64	X14-B04A
G21C-005	X14-B05
G21C-007	X14-C01
G21C-009-011	X14-B02
G21C-013	X14-B01
G21C-015	X14-B03
G21C-017	X14-C02
G21C-019	X14-C03
G21C-021	X14-C04
G21D	X14-C05
G21D-003	X14-C05B
G21D-005-007	X14-C05A
G21F-003/02-035	X14-C05X
G21F-009	X14-D
G21G-004/02	V05-E06
G21H-001	X14-E
G21K	V05-E08
G21K,G03B	V05-M01C
G21K,H01J-037	V05-F01A
G21K-001/02-04	V05-E08C
G21K-001/06	V05-E08A
G21K-007	V05-F01A3

Section H

H01-031/03	U12-A02B5X
H01B	X12-D
	X12-E
H01B-001	X12-D01
H01B-001/02	X12-D01A
H01B-001/04,06	X12-D01C
H01B-001/08-10	X12-D01B
H01B-001/12	X12-D01C1
H01B-001/14-18	X12-D01F2
H01B-001/14-24	X12-D01F1
H01B-003	X12-E
H01B-003/02	X12-E01
H01B-003/04-06,10,14-16	X12-E01B
H01B-003/08	X12-E01X
H01B-003/12	X12-E01A
H01B-003/18	X12-E02
H01B-003/20-28	X12-E02A
H01B-003/30-46	X12-E02B
H01B-003/48-56	X12-E02X
H01B-005	X12-D02
H01B-005/02-12,16	X12-D02
H01B-005/14	X12-D02A
H01B-007/00	X12-D03
H01B-007/02	X12-D03D
H01B-007/04-06	X12-D03A2
H01B-007/08	X12-D03A1
H01B-007/10	X12-D03J
H01B-007/12,14	X12-D03K
H01B-007/16	X12-D03L
H01B-007/17-24	X12-D03B1
H01B-007/26,30	X12-D03B3
H01B-007/28-288	X12-D03H
H01B-007/29-295	X12-D03C
H01B-007/32	X12-D03B2
H01B-007/36	X12-D03C
H01B-007/38-40	X12-D03X
H01B-007/42	X12-D03C
H01B-009/00-06	X12-D04
H01B-009/02,-11/6-10	X12-D03E
H01B-011/00-16	X12-D05
H01B-011/18-20	X12-D05M
H01B-011/22	X12-D08
H01B-012	X12-D06
H01B-013,-015	X12-D07
H01B-013/012	X12-D07D
H01B-013/02-04	X12-D07C
H01B-013/04-08,16, 28-30,34	X12-D07X
H01B-013/06	X12-D07B
H01B-013/08-12,18-20	X12-D07B9
H01B-013/14-16	X12-D07B1
H01B-013/22-26,32	X12-D07A
H01B-013/30,-015	X12-D07X
H01B-015	X12-D07X
H01B-017	X22-X01B2
H01B-017, H01F-027/29	X12-C01C
H01B-017/00	X12-E03
H01B-017/02-30	X12-E03A
H01B-017/32-54	X12-E03X
H01B-017/56,60-66	X12-E03C
H01B-017/58	X12-E03C1
	X12-G04A3
H01B-019	X12-E04
H01C	V01-A
	X12-A
H01C,H01C-008	V01-A02X
H01C-001	V01-A01
H01C-001,-010	V01-A03A
	V01-A03A1
	V01-A03B
H01C-001/01-016	V01-A01A
H01C-001/02-036	V01-A01B
H01C-001/04	V01-A01D
H01C-001/14-148	V01-A01C
H01C-003	V01-A02F
H01C-003,-008,-011,-13	V01-A02
H01C-003,-017,	V01-A04K5
H01C-007	V01-A02A7A
	V01-A02C
	V01-A02D
H01C-007,-017	V01-A04K3
	V01-A04K4
H01C-007/02	V01-A02A5B
H01C-007/02,04,-017	V01-A04K1
H01C-007/04	V01-A02A5A
H01C-007/06	V01-A02H
H01C-007/10-13	V01-A02B
H01C-007/10-13,-017	V01-A04K2
H01C-010	V01-A03
H01C-010/04	V01-A03C8
H01C-011	V01-A02X
H01C-013	V01-A02G
H01C-013/02	V01-A02G1
H01C-017	V01-A04
H01C-017,-017/30	V01-A04E
H01C-017/06-20	V01-A04B
H01C-017/22	V01-A04H3
H01C-017/22-26	U14-H04B
	U14-H01C
H01C-017/28	V01-A04F
H01F	V02
	X12
H01F,H04B-015	V05-D08B
H01F,H04N-009/28,285	W03-A08A5A
H01F-001	V02-A
H01F-001/032	V02-A01
H01F-001/04-08	V02-A01A
H01F-001/09	V02-A01C
H01F-001/10	U11-A04
H01F-001/10-117	V02-A01B
H01F-001/113-117	V02-A09
H01F-001/12	V02-A02
H01F-001/14-28	V02-A02A
H01F-001/28	V02-A09
H01F-001/33	V02-A02C
H01F-001/34-38	V02-A02B
H01F-001/37-375	V02-A09
H01F-001/40	V02-A05
H01F-001/42	V02-A03
H01F-001/44	V02-A04
H01F-003	V02-C
H01F-003,-027/24-26	X12-C01A
H01F-005,-013	V02-D
H01F-005,-027/28,30,32	X12-C01B
H01F-006	V02-E02X1
H01F-006/02,06	X12-C05
H01F-006/04	X12-C02A3
H01F-007	V02-E
	X12-C06
H01F-007/02-04	V02-E01
H01F-007/06	V02-E02
H01F-007/08-18	V02-E02A
H01F-007/20	V02-E02X

H01F-010/00-32	V02-B
H01F-010/10-24	V02-A01
	V02-A02
H01F-013	V05-D08A
	W03-A08A4
H01F-017	V02-F01
H01F-019	V02-F02
H01F-021	V02-F01D
	V02-F02G
H01F-027	V02-F03
	V02-G02
H01F-027/00,038/26, 30,36	V02-G02
H01F-027/02-06	V02-F03A3
	V02-G02A3
H01F-027/02-06,33	X12-C03
H01F-027/08-10, 18-22	X12-C02A
H01F-027/08-22	V02-F03A1
	V02-G02A1
H01F-027/12-14	X12-C02A1
H01F-027/16	X12-C02A2
H01F-027/23,40-42	X12-C09
H01F-027/24-26	V02-F03A2
	V02-G02A2
H01F-027/28-30	V02-F03B
	V02-G02B
H01F-027/29,33, 40-42	V02-F03X
	V02-G02X
H01F-027/32	V02-F03B1
	V02-G02B1
H01F-027/34-38	V02-F03D
	V02-G02d
	X12-C04
H01F-029	V02-G01A1
	V02-G01C1
H01F-029,-030,-036, -38/16	X12-C01E
H01F-029,037	X12-C01F
H01F-029/00,06	V02-F03C
	V02-G02C
H01F-029/02-04	V02-G02C1
	V02-F03C1
	X12-C02B1
H01F-029/06-14	X12-C02B
	V02-F03C2
	V02-G02C2
H01F-030,038/08-10	V02-G01A
H01F-037,038/08-10	V02-G01C
H01F-038/02-06	V02-G01A2
H01F-038/10,	X26-C01B1
H01F-038/12	V02-G01
H01F-038/14	V02-G01D
H01F-038/18	V02-F02D
H01F-038/20-24,28, 32,34,40	V02-G01B
H01F-038/20-40	X12-C01G
H01F-038/42	V02-F02A
H01F-041	T03-A04A1C
	V02-H
	X12-C01D
H01F-041/02	V02-H03
	V02-H04
	X12-C01D1
H01F-041/04-12	V02-H01
	X12-C01D2
H01F-041/14-16,22,28-34	V02-H02
H01F-041/18	V02-H02B
H01F-041/20	V02-H02A
H01F-041/24-26	V02-H02C
H01G	X12-B
	V01-B
H01G-002	V01-B
H01G-002/02-06	V01-B01B7
	V01-B03D7
H01G-002/08	V01-B01X
	V01-B03X
H01G-002/10-12	V01-B01B7
	V01-B03D3
H01G-002/14	V01-B01F
	V01-B03D3A
	V01-B03E5
H01G-002/16	V01-B01F1
	V01-B03E5
H01G-002/18	V01-B01F5
	V01-B03E5
H01G-004	V01-B03
H01G-004/005	V01-B03D1
H01G-004/008	V01-B03D1G
H01G-004/01-012	V01-B03D1
H01G-004/015	V01-B03E1
H01G-004/08-12	V01-B03A
H01G-004/14-18	V01-B03B
H01G-004/224	V01-B03D3
H01G-004/228-252	V01-B03D5
H01G-004/258	V01-B03H
H01G-004/30	V01-B03C3A
H01G-004/32	V01-B03C1
H01G-004/35	V01-B03C7
H01G-004/40	V01-B03C8
H01G-004/42	V01-B03C7
H01G-005	V01-B02A
H01G-005,007	V01-B02
H01G-005/38	V01-B02A5F
H01G-007	V01-B02B
H01G-007/02	V01-B02B5
H01G-009	V01-B01
H01G-009/008-12	V01-B01A7
H01G-009/016	V01-B01A7
	V01-B01D
H01G-009/02	V01-B01B3
H01G-009/022	V01-B01B
H01G-009/025-032	V01-B01B1
H01G-009/035	V01-B01B5
H01G-009/038	V01-B01B
	V01-B01D
H01G-009/04	V01-B01A
H01G-009/052	V01-B01A1
H01G-009/055	V01-B01A15
H01G-009/058	V01-B01A3
H01G-009/08-12	V01-B01B7
H01G-009/12	V01-B01B7A
H01G-009/16-22	V01-B01C
H01G-009/24	V01-B01G
H01G-011	V01-B01D
H01G-013	V01-B01G
	V01-B04
H01G-013,-013/02	V01-B04A1
H01G-013,-013/04	V01-B04B7
H01G-013	V01-B01G
	V01-B04
H01G-015	V01-B03C8
H01G-017	V01-B03C8

H01H	V03-C
	X13-A
	X13-B
H01H-001	V03-A09
H01H-001,-011	V03-A
H01H-001/02-04	V03-A01A
	X13-A01A
H01H-001/02-10	V03-A01
H01H-001/02-10, 011/04	X13-A01
H01H-001/06-10	V03-A01B
	X13-A01B
H01H-001/12-48	V03-A02
H01H-001/12-66	X13-A02
H01H-001/64-66	V03-A03
H01H-003,-009	V03-B09
	X13-A03
H01H-003/02-12	X13-A03A
H01H-003/14	V03-B01B
H01H-003/14-18	V03-B01
H01H-003/16-18	V03-B01A
H01H-003/22-52	V03-B02
H01H-003/22-58	X13-A03B
H01H-003-009	V03-B
H01H-005	V03-B03A
H01H-005,-007	V03-B03
	X13-A04A
H01H-005,-007,-40	X13-A04
H01H-009/02-06	V03-B04A
H01H-009/02-14	V03-B04
H01H-009/16-18	V03-B05
H01H-009/20	V03-B06A
H01H-009/20-30	V03-B06
H01H-009/20-50	X13-A03C
H01H-009/30	V03-B06B
H01H-011	V03-C07
	X13-A04F
H01H-011/04	V03-A08
H01H-013	V03-C01A
	X13-A04B2
H01H-013,-015	V03-C01
	X13-A04B
H01H-013/02-48	V03-C01A3
H01H-013/50-66	V03-C01A1
H01H-013/68-76	V03-C01A2
H01H-013/702-718	V03-C01A2
H01H-015	V03-C01B
	X13-A04B1
H01H-017,025	V03-C03
H01H-019	V03-C02A
	X13-A04C1
H01H-019,-021	V03-C02
	X13-A04C
H01H-021	V03-C02B
	X13-A04C2
H01H-023	V03-C04
H01H-023,-027	X13-A04D
H01H-025	V03-C03A
H01H-027	V03-C05
H01H-029,-039	V03-C09
H01H-031	X13-B01
H01H-033	X13-B09
H01H-033/04-26	X13-B04
H01H-033/28-42	X13-B05
H01H-033/60-68	X13-B02
H01H-033/64	X13-B02B
H01H-033/66-668	X13-B02A
	X26-A03B
H01H-033/70-99	X13-B03
H01H-033/82-835,	X13-B03A
H01H-033/86-873, 91,95,985	X13-B03A
H01H-035	V03-C06X
H01H-035/02-14	V03-C06C
H01H-035/18,42	V03-C06X
H01H-035/24-40	V03-C06D
H01H-035-039	V03-C06
H01H-036	V03-C06A
H01H-037	V03-C06B
H01H-037/36-44	V03-C06B9
H01H-037/46-56	V03-C06B1
H01H-039	V03-C09
H01H-043	S04-C01
	V03-C08
H01H-045,-049,-050	V03-D06
H01H-045,-050/02-14	V03-D06A
H01H-045-061	V03-D
H01H-047/02-20, -50/86-92	V03-D01
H01H-047/22-36	V03-D02
H01H-049	V03-D06B
H01H-050,-051	X13-A04G1
H01H-050/02-14	V03-D06A
H01H-050/16-42	V03-D03A
H01H-050/16-84	V03-D03
H01H-050/44-46	V03-D03B
H01H-050/54-62	V03-D03C
H01H-050/64-84	V03-D03D
H01H-051	V03-D04
H01H-051/22-26	V03-D04A1
H01H-051/22-29	V03-D04A
H01H-051/28,29	V03-D04A5
H01H-053	V03-D05E
H01H-053-061	V03-D05
H01H-055	V03-D05B
H01H-057	V03-D05A
H01H-059	V03-D05C
H01H-061	V03-D05D
H01H-063-067	V03-E
H01H-069	X13-D01C
	X13-D08
H01H-069,-085	X13-D01
H01H-069-087	X13-D
H01H-071,-079,-081,-87	X13-D09
H01H-071/02-08	X13-D06
H01H-071/14-22	X13-D03
H01H-071/24-38,50-74	X13-D04
H01H-071/40	X13-D03A
H01H-071/50-74	X13-D04A
H01H-073	X13-D02A
H01H-073-077	X13-D02
H01H-075	X13-D02B
H01H-077	X13-D02C
H01H-083	X13-D05
H01H-085	X13-D01T
H01H-085/045	X13-D01T2
H01H-085/046	X13-D01T5
H01H-085/047	X13-D01T8
H01H-085/048	X13-D01T6
	X13-D01T7
H01H-085/055-157,18	X13-D01A
H01H-085/16-62	X13-D01B
H01H-085/42	X13-D01T9
H01J	V05
	X26

H01J-001	V05-M02
	V05-M03
H01J-001/02-12	V05-M02
	V05-M03A
H01J-001/10	V05-M07
H01J-001/12	V05-M03A
H01J-001/13-28	V05-M02
H01J-001/14	V05-M02A
H01J-001/30	V05-M03A
H01J-001/304-316	U12-B03D
H01J-001/36-44	V05-M03E
H01J-001/46-48	V05-M03C
H01J-001/54-78	V05-M01
H01J-001/63	V05-M01A
H01J-003	V05-M04
H01J-005	V05-M05
H01J-005/02-16	V05-M05A
H01J-005/18	V05-M05E
H01J-005/20-44	V05-M05C
H01J-005/46	V05-M05B
H01J-007/02-12	V05-M09
H01J-007/18	V05-M06
H01J 007/24-28	V05-M07
H01J-009	V05-L
	X26-A03
H01J-009/02	V05-L01
H01J-009/04	V05-L01A1
H01J-009/08-10	V05-L01A1A
H01J-009/12	V05-L01A5
H01J-009/14	V05-L01B
H01J-009/16	V05-L01B1
H01J-009/18	V05-L01B
H01J-009/20-233	V05-L02
H01J-009/236	V02-H01
	W03-A08A1B
H01J-009/24	V05-L03A
	X26-A03B
H01J-009/26	V05-L03C
	X26-A03B
H01J-009/28	V05-L03A5
	X26-A03
H01J-009/30	V05-L03A
	X26-A03B
H01J-009/32	V05-L03C
	X26-A03B
H01J-009/34	V05-L03C5
	X26-A03B
H01J-009/36	V05-L03C1
	X26-A03B
H01J-009/28	V05-L03A5
H01J-009/36	V05-L03C1
H01J-009/38	V05-L03C5
	X26-A03B
H01J-009/385	V05-L03C5C
	X26-A03B
H01J-009/39	V05-L03C7A
	X26-A03B
H01J-009/395	V05-L03C5E
	X26-A03B
H01J-009/40	V05-L03C5
	X26-A03B
H01J-009/42	V05-L07E1
	X26-A03
H01J-009/44	V05-L07E5
	X26-A03
H01J-009/46	V05-L07A
	X26-A03
H01J-009/48	V05-L07C
	X26-A03
H01J-009/50	V05-L07E5
	X26-A03
H01J-009/52	V05-L07E6
	X26-A03
H01J-011	V05-A
H01J-013	V05-B03
H01J-015	V05-A03
	V05-A05
H01J-017	V05-A
H01J-017,H02H	V05-A05
H01J-017/04,16	V05-A01D1C
H01J-017/04-12	V05-A01C
H01J-017/06	V05-A01C3A
H01J-017/06-08	V05-A01C3
H01J-017/10	V05-A01C1
H01J-017/12	V05-A01C2
H01J-017/16	V05-A01D1
	V05-A01D3
H01J-017/16-18	V05-A01D
H01J-017/18	V05-A01D1A
	V05-A01D3A
	V05-A01D5
H01J-017/20	V05-A01B1
H01J-017/49	V05-A01
H01J-017/64	V05-A03
H01J-019	V05-B01B
	V05-B03B
	V05-B05A8X
	V05-B05B
H01J-019,-021	V05-B
H01J-019,H01L	V05-B05A8
	V05-B05B7
H01J-019/02-22	V05-B01B1
H01J-019/16	V05-B01B1A
H01J-019/24	V05-B03B1
	V05-B05A5
	V05-B05B3
H01J-019/24,H01L	V05-B05A5A
H01J-019/28-38	V05-B05B5
H01J-019/32	V05-B05B5B
H01J-019/32-34	V05-B03B5
H01J-019/32-36	V05-B01B5
H01J-019/38	V05-B01B3
	V05-B03B3
	V05-B05B5A
H01J-019/54-62	V05-B03B7
H01J-019/62	V05-B01B7
H01J-019/74	V05-B01B6
H01J-021	V05-B01
	V05-B03
	V05-B05
H01J-021,H01L	V05-B05A3C
H01J-021/04	V05-B01A1
	V05-B05A1A
H01J-021/10	V05-B01A3
	V05-B01A7
	V05-B05A1B
H01J-021/10,14	V05-B01A5
H01J-023	V05-C02
	V05-C03
H01J-025	V05-C01
H01J-025/10-30	V05-C01C
H01J-025/34-49	V05-C01B
H01J-025/50-60	V05-C01A
H01J-027	V05-E05
H01J-027,H01J-035,	V05-E

H01J-029	V05-D
H01J-029,-029/89	V05-D07C
H01J-029,-031	V05-D
H01J-029,-043	V05-D06E
H01J-029,H05K-009	V05-D07B5
H01J-029/02-45	V05-D05
H01J-029/04	V05-D01C3
	V05-D05C
	V05-D05C5
H01J-029/06	V05-D05E
H01J-029/07	V05-D05D
H01J-029/07,-009/227	V05-D05D5A
H01J-029/18	V05-D05B3
H01J-029/18-34	V05-D05B
H01J-029/20	V05-D05B1
H01J-029/22,28	V05-D05B7
H01J-029/26	V05-D05B5C
H01J-029/28	V05-D05B7A
H01J-029/30,32	V05-D05B5
H01J-029/34	V05-D05F
H01J-029/36,38	V05-D05A1
H01J-029/36-45	V05-D05A
H01J-029/39-45	V05-D05A5
H01J-029/46-82	V05-D06
H01J-029/48	V05-D06A1A
H01J-029/48,50	V05-D06A1
H01J-029/48-68	V05-D06A
H01J-029/50	V05-D06A1B
	V05-D06A1C
	V05-D06A1E
H01J-029/52	V05-D06A2
H01J-029/56	V05-D06A5
H01J-029/58-68	V05-D06A3
H01J-029/74	V05-D06B5
H01J-029/76	V02-F01A
	V05-D06B1
H01J-029/80,81	V05-D06C
H01J-029/86	V05-D07A3
	V05-D07A5
	V05-D07A7A
H01J-029/86,87	V05-D07A
H01J-029/86,90	V05-D07A7
H01J-029/86-90	V05-D07
H01J-029/87	V05-D07A1
H01J-029/88	V05-D07B3
H01J-029/88,90	V05-D07B
H01J-029/89	V05-D07C3
	V05-D07C5C
H01J-029/90	V05-D07B1
H01J-029/94	V05-D07E
	V05-D08
H01J-031	V05-D
H01J-031/08-22	V05-D01
H01J-031/26-42	V05-D02
H01J-031/44,48-56	V05-D03
H01J-031/49-495	V05-D03C
H01J-031/50-56	V05-D03B
H01J-031/58-68	V05-D04
H01J-033	V05-J
H01J-035	V05-E01
H01J-035/06	V05-E01C
H01J-035/08	V05-E01A
H01J-035/10	V05-E01B
H01J-035/10-14	V05-E01D
H01J-035/12	V05-E01F
H01J-035/14	V05-E01D1
H01J-035/16	V05-E01E3
	V05-E01E5
H01J-035/16-18	V05-E01E
H01J-035/18	V05-E01E1A
H01J-035/22	V05-E01H7
H01J-035/26	V05-E01H1
H01J-035/30	V05-E01H5
H01J-037	V05-F
H01J-037/02-06	V05-F04
H01J-037/073	V05-F04A3
H01J-037/075	V05-F04A1A
H01J-037/08	V05-F04A5
H01J-037/10-153	V05-F04C
H01J-037/12	V05-F04C1E
H01J-037/14-143	V05-F04C1A
H01J-037/145	V05-F04C1C
H01J-037/147	V05-F04C5
H01J-037/16	V05-F04D1
H01J-037/16-18	V05-F04D
H01J-037/18	V05-F04D3
H01J-037/20	V05-F04G
H01J-037/22	V05-F04J
H01J-037/24	V05-F05E5
H01J-037/244	V05-F04H
H01J-037/248	V05-F05E5
H01J-037/252,256	V05-F01A4
H01J-037/26	V05-F01A1
H01J-037/26-295	V05-F01A1C
	V05-F01A2
H01J-037/27	V05-F01A1A
H01J-037/28	V05-F01A1B
H01J-037/30-317	V05-F05A
H01J-037/30-36	V05-F05
H01J-037/32-36	V05-F08D1
H01J-037/73-77	V05-F04A
H01J-040	V05-G
H01J-040/06	V05-G01
H01J-041	V05-K03
H01J-043	V05-K01
H01J-047	V05-H
H01J-049	V05-J01
H01J-049/04	V05-J01C
H01J-049/10-18	V05-J01E
H01J-049/20,22	V05-J01G
H01J-049/26-42	S03-E10A
	V05-J01A1
H01J-049/30	S03-E10A1
H01J-049/32	S03-E10A1A
H01J-049/40	S03-E10A3
H01J-049/42	S03-E10A5
H01J-049/44-48	V05-J01A5
H01J-061/02	X26-A02
H01J-061/04-10	X26-A02B
H01J-061/12-22	X26-A02C
H01J-061/24-28, 50-56	X26-A02X
H01J-061/30-35	X26-A02A2
H01J-061/36	X26-A02A1
H01J-061/38-48	X26-A02D
H01J-061/60-68	X26-A01A
H01J-061/70-80	X26-A01E
H01J-061/80-82	X26-A01D
H01J-063	X26-A01A
H01J-063,H05B-031	X26-A01A
H01J-065	X26-A01B
	X26-A01C
H01K	X26-B
H01K,H04N-005/225	W04-M01H
H01K,H04N-005/74	W04-Q01B7
H01K-001	X26-B02

H01K-001/02-16	X26-B02A3
H01K-001/18-24,40	X26-B02A2
H01K-001/26,50-70	X26-B02X
H01K-001/28-38, 42-48	X26-B02A1
H01K-003	X26-B03
H01K-003/02-04	X26-B03A
H01K-003/22-26	X26-B03B
H01K-005-013	X26-B01
H01L,G11C	T01-H01B3
H01L,H01P-011,H05K	W02-A07A1
H01L,H04B-001/10	W02-G03B3C
H01L,H04N-005/33	W04-M01E1A
H01L-021	U12-A01B2
	U12-A02A3
H01L-021/027	U11-C04A1B
	U11-C04C
	U11-C04E1
	U11-C04A1H
	U11-C04D
	U11-C04E2
	U11-C04F
	U11-C04G
	U11-C04H
	U11-C04B3
	U11-C04B1
	U11-C04B2
H01L-021/027,033	U11-C04D1
H01L-021/027,66	U11-C04A1E
H01L-021/06	U11-C01J3B
H01L-021/078	U11-C06B
H01L-021/078,304	U11-C06A2
H01L-021/18	U11-C01J3A
H01L-021/20,36	U11-C01J1
H01L-021/203	U11-C09A
H01L-021/203	U11-C01A9
	U11-C01A2
	U11-C09D
H01L-021/203,205, 3065	U11-C09M
H01L-021/203,363	U11-C01A
H01L-021/205	U11-C09B
H01L-021/205,26	U11-C01B1
H01L-021/205,302	U11-C09C
H01L-021/205,365	U11-C01B
H01L-021/208,368	U11-C01H
H01L-021/22,26	U11-C02J1A
	U11-C02J1C
	U11-C02J2
	U11-C02J5
	U11-C02J6
	U11-C02J7
	U11-C02A
H01L-021/26	U11-C03B
	U11-C03J5
H01L-021/26,261	U11-C02J4
H01L-021/26,42	U11-C02B
H01L-021/261,263	U11-C03E
H01l-021/266,426	U11-C02B2
H01L-021/268	U11-C03C
H01L-021/28	U11-C05E
	U11-C05F1
	U11-C05F2
	U11-C05F3
	U11-C05F4
	U11-C05F5
	U11-C05F6
H01L-021/28,44	U11-C05C
H01L-021/285,443	U11-C05C3
	U11-C05C5
H01L-021/30	U11-C07C1
	U11-C07C4
	U11-C07D2
	U11-C07D3
	U11-C07D4
H01L-021/30,28,88	U11-C07C2
H01L-021/302,26,461	U11-C07A2
H01L-021/302,308, 467	U11-C07D1
H01L-021/302,461	U11-C07A
H01L-021/304	U11-C06A1A
H01L-021/304,306	U11-A10
H01L-021/306	U11-C06A1B
H01L-021/306,465	U11-C07B
H01L-021/308,467,302	U11-C07D
H01L-021/31	U11-C05B9C
H01L-021/31,32,469,475	U11-C05B9
H01L-021/31,469,475	U11-C05B9A
	U11-C05B9B
H01L-021/31,88,95	U11-C05D1
H01L-021/311	U11-C07C3
H01L-021/312	U11-A06A
	U11-A08A1
H01L-021/312,47	U11-C05A
H01L-021/314,16,18	U11-A08A2
H01L-021/314,471	U11-C05B
H01L-021/316	U11-C05B7
H01L-021/318	U11-C05B5
H01L-021/32,26,475	U11-C05B3
H01L-021/321,311	U11-C02J3
H01L-021/322	U11-C03J2B
H01L-021/324	U11-C03A
	U11-C03J1
	U11-C03J2A
H01L-021/324,76	U11-C08C
H01L-021/328,331	U13-D03B2
H01L-021/328,334	U11-C18
H01L-021/329	U11-C18B1
H01L-021/331	U11-C18A2
H01L-021/331,335	U11-C18A
H01L-021/332	U11-C18B2
H01L-021/334	U11-C18A3
H01L-021/339	U11-C18B3
H01L-021/34	U11-C01J4
H01L-021/363,44	U11-C05B2
H01L-021/38,42	U11-C02J1B
H01L-021/40,24	U11-C02X
H01L-021/50	U11-E
H01L-021/52,58	U11-D03B3
	U11-E02A3
H01L-021/52,68	U11-F02A3
H01L-021/56	U11-E02A
H01L-021/60	U11-E01
H01L-021/60,52,58	U11-E01C
H01L-021/60,603,607	U11-E01A
	U11-E01B
H01L-021/60,H01L-023	U14-H05
H01L-021/66	U11-F01
H01L-021/66,G06K-009	U11-F01B3
H01L-021/68	U11-F02
H01L-021/72,74,76	U11-C08A5
H01L-021/74,76	U11-C08B1
	U11-C08B2
	U11-C08B3
	U11-C08B9
H01L-021/76	U11-C08A2

H01L-021/761	U11-C08A1
H01L-021/762	U11-C08A4
H01L-021/762,763	U11-C08A3
H01L-021/82	U11-D03C1
	U11-D03C2
	U13-C04D
	U11-G
H01L-021/8246	U13-C04A1
H01L-021/84,86	U11-C08A6
H01L-021/88	U11-C05D3
	U11-C05D2
H01L-021/88,90	U11-C05G2C
H01L-021/90	U11-C05C7
	U11-C05D4
H01L-021/90,50	U11-D03B9
H01L-021/90,92	U11-D03B1
H01L-021/90,92,60	U11-D03A2
H01L-021/90,92,88	U11-D03B2
H01L-021/92,90	U11-C05G2B
H01L-023	U11-D
	U11-E02A2
	U11-E02B
	U14-H04A3
	U12-A02B3
	U12-A01B3
H01L-023,-025	U14-H05
	U14-H03A3
	U14-H03B
	U14-H03B1
	U14-H03B2
H01L-023,-025,G11C	U14-A10
H01L-023/02,04,05,08	U11-D01A1
	U11-D01A3
H01L-023/02,32	U11-D01
H01L-023/12	U11-D01A
H01L-023/29	U11-A07
H01L-023/32	U11-D01Q
H01L-023/34	U11-D02A
H01L-023/34,36	U11-D02B
H01L-023/38	U11-D02D2
H01L-023/40	U11-D02B2
H01L-023/46	U11-D02D1
H01L-023/48	U11-A08B
	U11-D03
H01L-023/48,50	U11-D03A1
H01L-023/495	U11-D03A1A
H01L-023/498	U11-D03A1B
H01L-023/52	U11-D03A4
	U11-D03A5
	U11-D03A6
	U11-D03A9
	U11-C06B
H01L-023/52,047, 049,55,057	U11-D03A3
H01L-023/525	U11-C05G2A
H01L-023/528	U11-D03C1A
H01L-023/532	U11-D03B1
	U11-D03B2
H01L-023/535,538	U11-C05D3
H01L-023/538	U14-H03F2
	U11-C05D2
H01L-023/552,556	U11-D01C2
H01L-023/60	U11-D01C3
H01L-023/62	U11-D03C1B
H01L-023/62,528,	U11-D03C1
H01L-023/64,66,535,538	U11-D03C3
H01L-023/66	U11-D03B9
	U11-D01A4
H01L-025	U11-D01A6
	U14-H03
	X15-A02
H01L-025,-049	U14-H04
H01L-025,H05K	U14-H03G
H01L-025,H05K-001	U14-H05
H01L-027	U13-A
	U13-C06
	U13-C08
	U13-C09
	U13-E02
	U14-H03H
	U13-D03B2
	U13-C04C
	W04-M01B5
H01L-027,-049,H05K	U14-H
H01L-027,H03	U13-B
H01L-027/01	U14-H01C
H01L-027/02	U13-E01
	U13-E09
H01L-027/04	U11-C05G1A
	U11-C05G1B
	U11-C05G1C
	U12-C02A1
	U12-C03
	U13-C04B1A
H01L-027/06	U13-C01A
H01L-027/06,01	U13-D01B
H01L-027/06,07	U13-B04
H01L-027/07	U13-B03
	U13-C02C
	U13-C03
	U13-D03
H01L-027/082	U13-B01
	U13-C01
	U13-D01
H01L-027/085	U13-B02
	U13-C02
H01L-027/085,088,092	U13-D02
H01L-027/088,092	U13-B02A
	U13-C02A
H01L-027/095	U13-B02B
	U13-C02B
H01L-027/10	U13-C04
H01L-027/108	U13-C04B1A
H01L-027/11	U13-C04B1B
H01L-027/112,115	U13-C04A
	U13-C04B2
H01L-027/118,	U11-D03C2
H01L-027/118,02	U13-C04D
H01L-027/12	U11-C08A6
H01L-027/14	S06-E03G1
	U11-C18B4
	U11-C18D
	U13-A01
	U13-D04A
H01L-027/14,16	U13-A01X
H01L-027/146	U13-A01A
	U13-A01B
H01L-027/148	U13-A02X
	U13-A02C
	U13-A02
	U13-A02B
H01L-027/15-26	U11-C18B9
H01L-027/16	U14-E01
H01L-027/20-26	U13-D04

H01L-029	U12-C02F
	U12-D
	U12-E01A4
	U12-E01A5
	U14-K01A2B
H01L-029,-027	U12-C02
H01L-029,-049	U12-C02C
H01L-029/02-10	U12-E01B
H01L-029/02-38	U12-E
H01L-029/12	U12-E01A
H01L-029/15	U12-E01B2
H01L-029/16	U12-E01A3
H01L-029/20	U12-E01A1
H01L-029/22,18	U12-E01A2
H01L-029/24-28	U12-E01A9
H01L-029/40,45,47	U12-E02
H01L-029/66	U12-D02K
H01L-029/70	U12-D01
H01L-029/72	U12-D01A1
	U12-D01A5
H01L-029/72,73	U12-D01A
H01L-029/73	U12-D01A3
	U12-D01A4
H01L-029/73,72	U12-D01A9
H01L-029/737	U12-D01A2
H01L-029/74	U12-D01B
H01L-029/74,87	U12-D01B4
H01L-029/744	U12-D01B3
H01L-029/745,749	U12-D01B1
H01L-029/747	U12-D01B2
H01L-029/76	U12-D02
H01L-029/76,78	U12-D02A5
H01L-029/76,80	U12-D02J2
H01L-029/775	U12-D02D1
H01L-029/775,778	U12-D02D
H01L-029/778	U12-D02D2
H01L-029/78	U12-D02A
H01L-029/784	U12-D02A3
	U12-D02A4
H01L-029/786	U12-B03A
H01L-029/788	U12-D02A1
H01L-029/792	U12-D02A2
H01L-029/796,816	U13-A02B
	U13-A02A
	U13-A02C
	U13-A02
H01L-029/80,812	U12-D02B
H01L-029/84	U11-C18C
H01L-029/84,G01L-009	U12-B03E
H01L-029/861	U12-C01
H01L-029/864	U12-C01E
H01L-029/866	U12-C01D
H01L-029/868,872	U12-C01C
H01L-029/88,885	U12-C01G
H01L-029/93	U12-C02B
	V01-B02B1
H01L-029/94	U12-C02A
H01L-029/95	U12-C02X
H01L-031	U12-A02
	U12-A02C3
H01L-031,-033	U12-A
H01L-031,H01L-031/04	U12-A02A
H01L-031/02,03	U12-A02B5
H01L-031/02,03,04	U12-A02A3
H01L-031/02,04	U12-A02A4
H01L-031/02,04,068,072	U12-A02A4C
H01L-031/0203,	U12-A02A1
H01L-031/0216,04	U12-A02A4D
H01L-031/0224,04	U12-A02A4A
H01L-031/0236,04	U12-A02A4B
H01L-031/0248	U12-A02A2
H01L-031/0296	U12-A02B5A
	U12-A02A2A
H01L-031/0304	U12-A02B5B
	U12-A02A2B
H01L-031/0312	U12-A02B5D
	U12-A02A2C
H01L-031/032,0336	U12-A02A2E
H01L-031/032,0336,0344	U12-A02A2X
H01L-031/0352	U12-A02A2Q
H01L-031/036,0376	U12-A02A2F
H01L-031/0368,0376	U12-A02B5C
H01L-031/04	U12-A02A1
	U12-A02A2
	U12-A02A2A
	U12-A02A2B
	U12-A02A2C
	U12-A02A2X
	U12-A02A2Q
	U12-A02A2F
	U12-A02A4E
H01L-031/042	U12-A02A5
	U12-A02A6
H01L-031/05	U12-A02A7
H01L-031/058,055	U12-A02A9
H01L-031/08	U12-A02B1
H01L-031/08,09,10	U12-A02B
H01L-031/08,10,11	U12-A02B3
H01L-031/10	U12-A02B2A
H01L-031/10,11	U12-A02B2
	U12-A02B4
H01L-031/11,112,113	U12-A02B2B
H01L-031/111	U12-A02B2C
H01L-031/115-119	U12-A03
H01L-031/12	U12-A02C1
H01L-031/12,14,16,18	U12-A02C
H01L-033	U12-A01
	X26-H
H01L-033,-021	U12-A01A2
H01L-033,-023	U12-A01A4
H01L-035	U14-E05
	U14-E09
H01L-035,-037	U14-E
H01L-037	U14-E01B
	U14-E01C
H01L-037/02	U14-E01A
H01L-037/04	U14-E02
H01L-039	U14-F
	T03-A01E
	T03-A06K
H01L-039/22	U14-F02B
H01L-039/24	U11-C18B9
	U14-F01A1
	U14-F01B1
H01L-041	U11-A02
	U14-G
	V06-V01B
	V06-V01D
H01L-041/04-053, 08-113, 18-193	V06-V01B
H01L-041/06,12,20	V06-V01D
H01L-041/22-26	V06-V01B
H01L-041/22-26	V06-V01D
H01L-041/22-26	V06-V03
H01L-043	U12-B01
H01L-043,-045,-047	U12-B

H01L-043/04,06,14	U12-B01A
H01L-043/08	U12-B01B
H01L-045	U12-B02
H01L-047/02	U12-B02A
H01L-049	U12-B03
	U14-K01A2A
H01L-049,G02F	U14-H01A
H01L-049/02	U12-B03B
	U14-H01
	U14-H02
	U12-B03A
H01M-002	X16-F
H01M-002/02-06	X16-F01
H01M-002/08	X16-F01A
H01M-002/10	X16-F06
H01M-002/12	X16-F03B
H01M-002/14-18	X16-F02
H01M-002/20-34	X16-F03
H01M-002/36-40	X16-F04
H01M-004	X16-E
H01M-004/02,36-46	X16-E01
H01M-004/06-12	X16-E03
H01M-004/14-23	X16-E04
H01M-004/24-34	X16-E05
H01M-004/48-57	X16-E01C1
H01M-004/60	X16-E01A
H01M-004/64-84	X16-E02
H01M-004/86-98	X16-E06
H01M-006/02	X16-A
H01M-006/04	X16-A01
H01M-006/06-12	X16-A01A
H01M-006/14-20	X16-A02
H01M-006/30-32	X16-A03
H01M-006/34	X16-A03B
H01M-006/36	X16-A03A
H01M-008	X16-C
	X21-B01A
H01M-008/04	X16-C09
H01M-008/10-12	X16-C01
H01M-008/14	X16-C02
H01M-008/16	X16-C06
H01M-008/24	X16-C18
H01M-010	X16-B
H01M-010/00-02	X16-B01
H01M-010/06-22	X16-B01B
H01M-010/24-32	X16-B01A
H01M-010/36-38	X16-B01X
H01M-010/39	X16-B01C
H01M-010/40	X16-B01F
H01M-010/42	X16-B09
H01M-010/50	X16-K
H01M-012	X16-B01D
H01M-012,-014,-016	X16-D
H01P	W02-A
H01P-001	W02-A01C
	W02-A01D
	W02-A04
	W02-A06
H01P-001,H03H	W02-A06E
H01P-001/02	W02-A01C1
H01P-001/04	W02-A01C2
H01P-001/06	W02-A01C3
H01P-001/08	W02-A01C5
H01P-001/10-15	W02-A04A
H01P-001/11,12	W02-A04A1
H01P-001/14	W02-A04A3
H01P-001/15	W02-A04A5
H01P-001/16	W02-A06A
H01P-001/162	W02-A06A1
H01P-001/165	W02-A06B
H01P-001/17	W02-A06B1
H01P-001/175	W02-A06B3
H01P-001/18-195	W02-A06C
H01P-001/185	W02-A06C1
H01P-001/19-195	W02-A06C2
H01P-001/201-205	W02-A05A
H01P-001/201-219	W02-A05K
H01P-001/202	W02-A05A1A
	W02-A05A1C
H01P-001/20-219	W02-A05
H01P-001/203	W02-A05A2
H01P-001/205	W02-A05A1E
	W02-A05A3
H01P-001/207	W02-A05B
H01P-001/208	W02-A05B1
H01P-001/210-219	W02-A05K4
H01P-001/211	W02-A05B2
H01P-001/212	W02-A05K6
H01P-001/213	W02-A05K7
H01P-001/215-218	W02-A05E
H01P-001/219	W02-A05F
H01P-001/22	W02-A04C5
H01P-001/22-23	W02-A04C
H01P-001/23	W02-A04C1
H01P-001/24	W02-A04D
H01P-001/36-375	W02-A04E
H01P-001/38-397	W02-A04F
H01P-001/387	W02-A04F1
H01P-003	W02-A01
H01P-003/02-08	W02-A01A
H01P-003/10-18	W02-A01B
H01P-005/00-04	W02-A02
H01P-005/08-10	W02-A02A
H01P-005/103	W02-A02A1
H01P-005/107	W02-A02A2
H01P-005/12	W02-A02B
H01P-005/16-22	W02-A02B1
H01P-005/18	W02-A02B1A
H01P-005/20	W02-A02B1C
H01P-005/22	W02-A02B1D
H01P-007	W02-A03A
H01P-007/02	W02-A03A2
H01P-007/04	W02-A03A2A
	W02-A03A2C
H01P-007/06	W02-A03A3
H01P-007/08	W02-A03A4
H01P-007/10	W02-A03A5
H01P-009/00-04	W02-A03B
H01P-011	W02-A07
H01Q	W02-B
H01Q-001	W02-B
H01Q-001/02	W02-B07B
H01Q-001/04	W02-B07
	W02-B08
H01Q-001/06	W02-B08X
H01Q-001/08	W02-B07A5
	W02-B08K
H01Q-001/10	W02-B01C1A
H01Q-001/12-22	W02-B07A
H01Q-001/24	W02-B08C3
H01Q-001/26	W02-B08B
H01Q-001/28	W02-B08F5
	W02-B08F7
	W02-B08F6

H01Q-001/32	W02-B07C1
	W02-B07D
	W02-B08F1
H01Q-001/34	W02-B08F2
H01Q-001/42	W02-B07C
H01Q-001/50	W02-B08B1
H01Q-001/52	W02-B08P6
H01Q-003	W02-B06E
H01Q-003/00-46	W02-B06
H01Q-005	W02-B08R1
H01Q-007/00-08	W02-B01A
H01Q-007/06-08	W02-B01A1
H01Q-009	W02-B01
H01Q-009,011	W02-B01C
H01Q-009/16	W02-B01B1
H01Q-009/261	W02-B01B2
H01Q-009/27	W02-B01B3
H01Q-011	W02-B01D
H01Q-011/08	W02-B01C3
H01Q-013	W02-B02
H01Q-013/00-28	W02-B02
H01Q-013/02	W02-B02B
H01Q-013/08	W02-B02A
H01Q-013/10-18	W02-B02C
H01Q-015	W02-B03
H01Q-015/02-12	W02-B03A
H01Q-015/14	W02-B03B2A
H01Q-015/14-22	W02-B03B
H01Q-015/24	W02-B03C
H01Q-017	W02-B03D
H01Q-019	W02-B04
H01Q-019/02	W02-B04A
H01Q-019/06-09	W02-B04B
H01Q-019/12	W02-B04E
H01Q-019/30	W02-B04D
H01Q-021	W02-B05
H01Q-021/06	W02-B05B
	W02-B05B6
H01Q-021/10	W02-B05C
H01R	V04
H01R-004	V04-A
H01R-004/02,06,08	V04-A01
H01R-004/04	V04-A06
H01R-004/10-20	V04-A02
H01R-004/24-26	V04-A03
H01R-004/28	V04-A04
H01R-004/30-36	V04-A04B
H01R-004/38-46	V04-A04A
H01R-004/48	V04-A04C
H01R-004/50-52	V04-A04X
H01R-004/54-62	V04-A09
H01R-004/64,66	V04-A05
H01R-004/68	V04-A10
	X12-G02X
H01R-004/70,72	V04-A08
H01R-009	V04-B
H01R-009/05	V04-B03
H01R-009/11	V04-B04
H01R-009/15	V04-B09
H01R-009/16-24,28	V04-B05
H01R-009/26	V04-B05A
H01R-011	V04-C
H01R-011/01-09	V04-C05
H01R-011/11-32	V04-C01
H01R-012,-024	V04-B
	V04-G
H01R-012/02,18	V04-G09
H01R-012/04-06,32-36	V04-B01
H01R-012/08-12,38	V04-B02
H01R-012/16-28	V04-G02
H01R-012/18,20	V04-G02A
H01R-012/22	V04-G02B
H01R-013	V04-D
H01R-013/02-03	V04-D01
H01R-013/04-08	V04-D01A
H01R-013/10-14	V04-D01B
H01R-013/40-436	V04-D02
H01R-013/44-453	V04-D06A
H01R-013/46-533	V04-D03
H01R-013/56-60,72-74	V04-D09
H01R-013/58-595	V04-D06D
H01R-013/62-625, 629-639	V04-D04
H01R-013/627	V04-D04A
H01R-013/64-645	V04-D06C
H01R-013/648-658	V04-D06B
H01R-013/66-719	V04-D05
H01R-024	V04-E
	V04-F
	V04-G01
H01R-025,-027,-029	V04-H
H01R-025/14-16	V04-H01
H01R-031	V04-J
H01R-033	V04-K
H01R-033/02-46	V04-K01
	X26-F
H01R-035,041	V04-N
H01R-039/02	V04-L
H01R-039/04-16,56,32-34	V04-L01A
H01R-039/04-59	V06-M12
	X11-J03
H01R-039/18-30, 36-44,58-59	V04-L01B
H01R-039/60-64	V04-L09
H01R-043	V04-P
H01R-043/01,027,26-28	V04-P09
H01R-043/02	V04-P08
H01R-043/033	V04-P01C
H01R-043/04-058	V04-P01A
H01R-043/06-14	V04-P02
	V06-M11A
	X11-J08A
H01R-043/16,20-24	V04-P06
H01R-043/18	V04-P07
H01R-101/00	V04-E
H01R-103/00	V04-F
H01R-105/00	V04-G
H01R-107/00	V04-G
H01S-001/00,02,04,06	V08-B01
H01S-003	V08-A06
	V08-A
H01S-003/02,05	V08-A01
H01S-003/036	V08-A01C
H01S-003/038	V08-A01B
H01S-003/04	V08-A05
H01S-003/043	U12-A01B3A
H01S-003/05	V08-A01A
H01S-003/082	V08-A01A3
H01S-003/083	V08-A01A1
H01S-003/09	V08-A02
H01S-003/0941,16,17	V08-A04C1
H01S-003/096	V08-A02A
H01S-003/097	V08-A02C
H01S-003/098	V08-A03B
H01S-003/10	V08-A06A
	V08-A03

H01S-003/10,11,13,34	V08-A01A2
H01S-003/109	V08-A03C1
H01S-003/11	V08-A03D
H01S-003/13	V08-A03A1
	V08-A03C2
H01S-003/133	U12-A01B4
H01S-003/14	V08-A01D1
H01S-003/16,17	V07-K01C2
	V08-A04C
H01S-003/17	V08-A04C2
H01S-003/18	U12-A01B1A
	U12-A01B1B
H01S-003/18,19	V07-K01C1
	U12-A01B
	V08-A04A
	U12-A01B2
	U12-A01B3
H01S-003/19,085	U12-A01B1
H01S-003/20	V08-A04D
H01S-003/22	V08-A04B
H01S-003/23	V08-A07
H01S-003/30	V08-A04X
H01S-004,H01S-001	V08-B
H01S-004/00	V08-B02
H01T	X12-F
H01T-001,-002,-007, -009, -011,014	X12-F01
H01T-004	X12-F01A
H01T-013	X22-A01E
H01T-013/22-36	X22-A01E1A
H01T-013/39	X22-A01E1C
H01T-013/41	X22-A01E1J
H01T-013/44	X22-A01E1G
H01T-015	X12-F02
H01T-019	X12-F04
H01T-019/00	S06-E02A
H01T-021/02-04	X22-A01E1E
H01T-021/06	X12-F09
H01T-023	X12-F03
H02B	X13-E
H02B-001	X13-E09
H02B-001/01-056,-015	X13-E01
H02B-001/06-24	X13-E04
H02B-001/20-24	X13-E04A
H02B-001/26-52	X13-E02
H02B-003	X13-E08
H02B-005-013	X13-E03
H02B-011	X13-E03A
H02B-011,-013	X13-A04E
H02B-013	X13-E03B
H02G	W06-B01C1
	W01-D
	X12-G
	W06-C01C1
	W06-B01C1
H02G-001	W01-D01
	X12-G01
H02G-001/02,04	X12-G01A1
H02G-001/06	X12-G01A7
H02G-001/08	X12-G01A7D
H02G-001/10	X12-G01A7G
H02G-001/12	X12-G01B
H02G-001/14	X12-G01E
H02G-001/16	X12-G01D
H02G-003,009/00-12	X12-G04
H02G-003/02-06,22	X12-G04A
H02G-003/02-06,22-24	X12-G04A
H02G-003/08-20	X12-G04B
H02G-003/26,28	X12-G04A1
H02G-003/30,36	X12-G04A
H02G-003/32	X12-G04A2
H02G-003/34,38-40	X12-G04A1
H02G-005	X12-G03
H02G-007	X12-G05
H02G-011	X12-G08
H02G-013	X12-G01F
H02G-015	W01-D02
	X12-G02
H02G-015/007-013,20-34	X12-G02X
H02G-015/02-076	X12-G02B
H02G-015/08-196	X12-G02C
H02H	X13-C
H02H-001-007,011	U24-F
H02H-001-009H04M	W01-C08A
H02H-003	X13-C01
H02H-003/08-10	X13-C01A
H02H-003/14-17	X13-C01B
H02H-003/20-253	X13-C01C
H02H-003/26-36	X13-C01D
H02H-005	X13-C02
H02H-006,-011	X13-C09
H02H-007	X13-C04
H02H-007/04-06	X13-C04B
H02H-007/08-097	X13-C04C
H02H-007/10-127	U24-D01B
	X12-J01B
	X13-C04D
H02H-007/26-30	X13-C04A
H02H-009	U24-F02
	X13-C03
H02H-009/02,08	X12-H01A3
	X13-C03B
H02H-009/04	X13-C03A
H02J	U24-H
	X12-H
H02J-001/00-16,-003/36	X12-H01D
H02J-001-005,-017	X12-H01
H02J-003	U24-H
H02J-003/01	X12-H01A4
H02J-003/04-08,34, 38-50	X12-H01B
H02J-003/12	X12-H01A1
H02J-003/14	X12-H01A1A
H02J-003/16	X12-H01A1C
H02J-003/18-22	X12-H01A2
H02J-003/24	X12-H01A5
H02J-003/26	X12-H01A6
H02J-003/28-32	X12-H01A7
H02J-003/38	U24-E02D1A
H02J-007/00,32,36	X16-G
H02J-007/02-12	X16-G01
H02J-007/14-30	X16-G02C
H02J-007/35	X16-G02A
H02J-009	U24-J
H02J-009,-011	X12-H02
H02J-013	X12-H03
H02J-015	X12-H06
H02K	V06-M
	X11
H02K-001	V06-M07
	X11-J01
H02K-001/12-20	V06-M07A
	X11-J01A
H02K-001/22-32	V06-M07B
	X11-J01B
H02K-001-015	X11-J

H02K-003	V06-M08
	X11-J02
H02K-003/04-24	X11-J02A
H02K-003/04-28	V06-M08A
H02K-003/30-44	X11-J02B
H02K-003/32-44	V06-M08B
H02K-003/46-52	X11-J02C
H02K-005	X11-J07
H02K-005/00-99	V06-M09
H02K-005/14-173	X11-J07A
H02K-007	V06-M10
	X11-J05
H02K-007/10-12	X11-J05A
H02K-007/14-20	X11-J05B
H02K-009	V06-M13
	X11-J06
H02K-009/19-22	X11-J06A
H02K-011	V06-M14
	X11-J04
H02K-013	V06-M12
	X11-J03
H02K-015	V06-M11
	X11-J08
H02K-015/02-03	V06-M11D
H02K-015/02-04	X11-J08A
H02K-015/04-095	V06-M11B
	X11-J08B
H02K-015/10-12	V06-M11C
H02K-015/10-12,16	X11-J08C
H02K-016,-025-027, -031,-047,-053,-057	X11-H09
H02K-017	X11-E
H02K-017,-023,-027	V06-M02
H02K-017,027	V06-M02B
H02K-019	V06-M01B
	X11-D
H02K-019,-021	V06-M01
H02K-021	V06-M01A
	X11-G
H02K-023	V06-M02A
	X11-F
H02K-024	V06-M06A
H02K-025-026,-031, -047,-057	V06-M06
H02K-029	V06-M03
	X11-H01
H02K-029/06-12	X11-H01C
H02K-033,035	V06-M04
H02K-033/18	V06-M04A
H02K-037	V06-M05
H02K-037/02-08	V06-M05A
H02K-037/10-20	V06-M05B
H02K-041	V06-M06B
	X11-H02
H02K-041/025	V06-M06B1
	X11-H02A
H02K-041/03	V06-M06B2
	X11-H02B
H02K-041/035	V06-M06B3
	X11-H02C
H02K-044	X11-H03B
H02K-044,-049,-051	X11-H03
H02K-044/02, 04, 06	V06-M06K
H02K-044/08-28	V06-M06Q
	X11-H03B1
H02K-049,-051	X11-H03A
H02K-055	X11-H05
H02M	W06-C01C3
	U24-D
	X12-J
	X23-A01A3
	W06-C01C3
	W06-B01C3
	W06-B03B
H02M,H03G,H03D-001	U24-C03
H02M,H03K	U21-B05C
H02M,H04N-005/225	W04-M01P
H02M-001	U24-D01
	X12-J01
H02M-001/02-096	U24-D01A
	X12-J01A
H02M-001/02-096, -007	X13-H03B
H02M-001/10,16, 20-30	U24-D01X
	X12-J01X
H02M-001/12	X12-J01E1
	U24-D01E1
H02M-001/12,14,15	U24-D01E
	X12-J01E
H02M-001/14,15	X12-J01E2
	U24-D01E2
H02M-003	U24-D02
	X12-J02
H02M-003/02-158,20	U24-D02A
	X12-J02A
H02M-003/137-142, 156-158,-005/451, 452	X13-H03X
H02M-003/16-18, 34-42,-007/30-38, 54-62,86-96,-009, 011	U24-D09
	X12-J09
H02M-003/22-338,44	U24-D02B
	X12-J02B
H02M-005	U24-D03
	X12-J03
H02M-007/02-155, 17-217,23,26-28,40	X12-J04
H02M-007/02-155, 17-28,40	U24-D04
H02M-007/162,219	U24-D04C1
	X12-J04C1
H02M-007/25	U24-D04E
	X12-J04E
H02M-007/42-519, 523-5383,539-5395, 64-84,98	U24-D05
	X12-J05
H02M-007/521,5387	U24-D05A
H02M-007/525-529, 539-5395,758	X13-H03A
H02N	V06-N13
H02N-001	V06-M06B8
	V06-M06F
	V06-N11F
	V06-N40F
H02N-001,-010,-013	X11-H04
H02N-001,H02N-013	V06-N08
H02N-002/02-04,08	V06-M06B7
	V06-M06B9
H02N-002/06	V06-N11D
	V06-N11E

H02N-002/10-12,16	V06-M06D
	V06-M06H
H02N-002/14	V06-N07
	V06-N09
H02N-002/18	V06-M06D2
H02P,H02N	V06-N
H02P-001	V06-N05
	X13-H01A
H02P-003	V06-N06
	X13-H01
	X21-A03
	X23-A01B
	X23-A01B3
H02P-005	X13-H01X
H02P-006	X13-H01G
H02P-021	X13-H01D1C
H02P-005,-007	X21-A04
H02P-005/06-26	X13-H01C
H02P-005/06-26,46-52, -007/06-34,68-695	V06-N02
H02P-005/28-44,46-52, -007/36-66,74-753	V06-N03
H02P-005/46-52	X13-H01X
	V06-N30
	V06-N04
	X13-H01E
H02P-007	V06-N
	X13-H
	X13-H01G1
	X13-H01G2
H02P-007/06-34	X13-H01C
H02P-007/282,298	X13-H01C1A
H02P-007/28-298	X13-H01C1
H02P-007/285-295	X13-H01C1B
H02P-007/36-66	X13-H01D
H02P-007/38-50,54, 56,64,66	X13-H01D
H02P-007/58-638	X13-H01D1
H02P-007/622	X13-H01D1B
H02P-007/628-632	X13-H01D1A
H02P-007/67-80	V06-N30
	X13-H01X
H02P-008	V06-N01
H02P-009	V06-N40
	X13-H02
	X13-H02T7
	X13-H02T8
	X13-H02T9
	X13-H02T7B
H02P-009/08-38	X13-H02A
H02P-011,015,017	X13-H04
H02P-021	V06-N37
	X13-H01D1C
H03B-001	U23-A
	U23-E
H03B-005/00-06	U23-A01
H03B-005/08-16	U23-A01B
H03B-005/18	U23-A01B2
H03B-005/30-42	U23-A01A
H03B-005/32-38	U22-A04A2
H03B-007,009	U23-A02
H03B-011-017,023-029	U23-F
H03B-019	U23-B
H03B-021	U23-J05
H03B-021,H03D-007	U23-J
H03B-021-028	U23-F03
H03B-023-029	U23-F03
H03B-029/00	U23-F05
H03C,H03D	U23-P
H03C-001	U23-G
H03C-003	U23-H
H03D,H03G-003/20	U24-C01G
H03D,H04B-001	W03-B02C
H03D-001	U23-K
H03D-003	U23-L
H03D-007	U23-J
H03D-007,H03B-021	U23-J05
H03D-007/00-12	U23-J01C1
H03D-007/14	U23-J01C5
H03D-013	U23-C
H03D7/18	W02-G03A5A
	W03-A01B5A
	W03-B01A5A
H03F	U24-G
H03F,H04N-005/44	W03-A
H03F,H04R-027	W04-S05A
H03F,H05K	W03-C07
H03F-001	U24-G03
H03F-001/02-07	U24-G03N
H03F-001/26-28	U24-G03D1
H03F-001/30	U24-G03G
	U24-G03H
H03F-001/32	U24-G03D5
H03F-001/34-36	U24-G03A
H03F-001/38-40	U24-G03B
H03F-001/42-50	U24-G03J
H03F-001/52,54	U24-G03C
H03F-003	U24-G
H03F-003/181-187	U24-G01C
	W03-C01A
H03F-003/189-195	U24-G01D
H03F-003/20-24	U24-G01B
H03F-003/26-32	U24-G02C
H03F-003/34-36	U24-G02D
H03F-003/38	U24-G02E
H03F-003/45	U24-G02A
H03F-003/50,52	U24-G02A7
H03F-003/62,64	U24-G02F3
H03F-003/68	U24-G02F2
H03F-003/72	U24-G02F1
H03F-007	U24-G04E
H03F-007-021	U24-B
H03G	U24-C
H03G,H04B	W04-G04
H03G,H04B-001	W02-G03D
	W03-A03A
	W03-B02A
H03G,H04M-001/60	W01-C01C1C
H03G-003/02-18	U24-C05A
H03G-003/02-18,	U24-C05
H03G-003/20	U24-C01G
H03G-003/20-22	U24-C01
H03G-003/20-22,30	U24-C01A
H03G-003/20-24,30-32	U24-C01C
H03G-003/26,28,34	W02-G03B1
H03G-003/30	U24-C01B
H03G-003/34	U24-C05C
H03G-005	U25-F05
	W03-C05A
H03G-005/02-14	U25-F05C
H03G-005/16-28	U25-F05A
H03G-007	U24-C02B
H03G-009	U24-C05D
H03G-011	U24-C02A

H03H	U14
	U25
	V06
H03H-003	V06-V01E
H03H-003	V06-V03
H03H-007	U25-D
	U25-E
H03H-007/01-13	U25-E02
H03H-007/18	U25-F01
H03H-007/19	U25-E05Q
H03H-007/20	U25-F01A
H03H-007/21	U25-F01
H03H-007/24-27	U25-D07C
H03H-007/30-34	U25-A05
H03H-007/38-40	U25-D05
H03H-007/42	U25-D03
H03H-007/46	U25-D01C
	U25-E05K
H03H-007/48	U25-D01C
H03H-009	V06-V01E
H03H-009/02-25	V06-V01E
H03H-009/02-25	V06-V02
H03H-009/40-44	V06-V04D2
H03H-009/46-64	V06-V04D1
H03H-011/00-02	U25
H03H-011/04-06	U25-E01
H03H-011/08,10	U25-C
H03H-011/12-14	U25-E01
H03H-011/16	U25-F01
H03H-011/18	U25-E05Q
H03H-011/20	U25-F01A
H03H-011/22	U25-F01
H03H-011/24	U25-D07
H03H-011/26	U25-A05
H03H-011/28-30	U25-D05
H03H-011/32	U25-D03
H03H-011/34	U25-D01A
	U25-E05K
H03H-011/36	U25-D01A
H03H-015	U25-A02
H03H-017	U22-G
H03H-017,H04R-025	W04-Y03G3
H03H-017/02	U22-G01
H03H-017/04	U22-G01A1
H03H-017/06	U22-G01A3
H03H-017/08	U22-G03
H03H-019	U25-A01
H03H-021	U22-G01A5
	U25-A
H03J	U25
H03J-001	U25-K
H03J-003	U25-G
H03J-005	U25-H
H03J-007	U25-J
H03J-007/02-16	U25-J05
H03J-007/18-32	U25-J01
H03J-009	W03-A02C
	W03-G05A
H03K	U21
	U22
H03K-003	U22-A
	U22-B
H03K-003/01-017	U22-B05
H03K-003/023	U22-A02E
H03K-003/027-037	U22-A02D
H03K-003/16-22	U22-A04A1
H03K-003/26-30	U22-A02A
H03K-003/295-297	U22-A02E
	U22-A04D5
H03K-003/353-356	U22-A02B
H03K-003/53-57	U22-A03
H03K-003/64-86	U22-A01
H03K-003/84	U22-A01A
H03K-004	U22-C
H03K-004/04	U22-C09
H03K-004/06-90	U22-C01
H03K-004/92-94	U22-C09
H03K-005	U22-D
H03K-005/003-007	U22-D01A1A
H03K-005/01	U22-D01
H03K-005/02	U22-D01A1
H03K-005/04	U22-D01A6
H03K-005/05	U22-D01A6C
	U22-D01A7
H03K-005/06,07	U22-D01A5
	U22-D01A6A
H03K-005/08	U22-D01A1C
H03K-005/12	U22-D01A1
H03K-005/125	U22-D02
H03K-005/1252-1254	U22-D01A3
H03K-005/13-145	U22-D04
H03K-005/15-151	U22-D06
H03K-005/153-1536	U22-D07
H03K-005/1532	U22-D07C
H03K-005/1534-1536	U22-D07A
H03K-005/156	U22-D05
H03K-005/19	U22-D03
H03K-005/22	U22-D02
H03K-005/24	U22-D02A
H03K-005/26	U22-D02E
	U22-D02C
	U22-D02G
H03K-007	U22-E
H03K-007/02	U22-E01E
H03K-007/04	U22-E01C
H03K-007/06	U22-E01G
H03K-007/08	U22-E01A
H03K-009	U22-E05A
H03K-011	U22-E05C
H03K-017	U21-B
H03K-017/04,06, 10,12	U21-B02D
H03K-017/08	U21-B02E
H03K-017/14	U21-B02G
H03K-017/16	U21-B02F
H03K-017/20,22	U21-B02B
H03K-017/28	U21-B02A1
H03K-017/296	U21-B02A2
H03K-017/30,13	U21-B02A3
H03K-017/57	U21-B01
H03K-017/58,60,74	U21-B01A
H03K-017/687	U21-B01B
H03K-017/723	U21-B01D1
H03K-017/72-735	U21-B01C
H03K-017/78	U21-B01E
H03K-017/945,96	U21-B02C
H03K-017/945-955	U21-B02C1
H03K-017/965-98	U21-B02C2
H03K-019	U21-C
H03K-019/003	U21-C03A
H03K-019/007	U21-C03C
H03K-019/0175	U21-C02
H03K-019/0175,018,185	U21-C02A
H03K-019/02	U21-C01

H03K-019/04,06,16, 17,18,185	U21-C01X
H03K-019/08	U21-C01C
H03K-019/082,10,12	U21-C01A
H03K-019/084,09	U21-C01A1
H03K-019/086	U21-C01A2
H03K-019/088	U21-C01A3
H03K-019/091	U21-C01A4
H03K-019/094	U21-C01B
H03K-019/0944	U21-C01B5
H03K-019/0944,0948	U21-C01B3
H03K-019/0952,0956	U21-C01B1
H03K-019/10	U21-C01R
H03K-019/14	U21-C01G
H03K-019/173,177	U21-C01E
H03K-019/177	U13-C04C
H03K-019/195	U21-C01F
H03K-019/20	U21-C03B
H03K-019/23	U21-C03B2
H03K-021/02,08	U21-D01
H03K-021/38	U21-D02A
H03K-021/38,40	U21-D02
H03K-021/40	U21-D02B
H03K-021-023	U21-D09
H03K-021-029	U21-D
	U23-D01B1
H03K-023	U21-D05
	U21-D06
H03K-023/03,74	U21-D06B
H03K-023/06,28,46, 76,82,84	U21-D06X
H03K-023/23,80	U21-D06A
H03K-023/40	U21-D03
H03K-023/44,52,60	U21-D06A1
H03K-023/54	U21-D03A
H03K-023/58	U21-D04
H03K-023/62	U21-D05A
H03K-023/64	U21-D05B
H03K-023/66	U21-D05B1
H03K-023/68	U21-D05B2B
	U21-D05B3
H03K-023/72	U21-D05B2A
H03K-023/78	U21-D06A3
H03L	U22
	U23
H03L-001/02-04	U23-E05
H03L-001-005	U22-B
	U23-E
H03L-003	U22-B09
	U23-E
H03L-005	U23-E01A
H03L-007	U22-H
	U23-D
H03L-007/00-04	U23-D02
H03L-007/06-07	U23-D01
H03L-007/08-083	U23-D01A
H03L-007/085-093	U23-D01A3
H03L-007/095	U23-D01A5
H03L-007/099	U23-D01A1
H03L-007/10-14	U23-D01F
H03L-007/16-23	U23-D01B
H03L-007/193	U23-D01B1
H03L-009	U23-D02
H03M	U21-A
H03M-001	U21-A02
	U21-A03
	W05-D01
H03M-001/02	U21-A03H
H03M-001/06,08	U21-A02B7G
	U21-A03F7G
H03M-001/08,10,68	U21-A02B
H03M-001/10	U21-A02B2
	U21-A03F1
H03M-001/22,28,30	U21-A03J9
H03M-001/24	U21-A03J1
H03M-001/36	U21-A03C
H03M-001/38	U21-A03B
H03M-001/50,60	U21-A03A
H03M-001/66	U21-A02A
H03M-001/76,68	U21-A02A9
H03M-001/78	U21-A02A2
H03M-001/80	U21-A02A1
H03M-001/82,86	U21-A02A3
H03M-003	U21-A04
H03M-003/02	U21-A04A
H03M-003/04	U21-A04B
H03M-005/00-22	U21-A05C
	W01-A02
H03M-007	U21-A05A
	W01-A02A
H03M-007/02-28	U21-A05A1
H03M-007/30	U21-A05A2
H03M-007/40	U21-A05A2A
H03M-007/46	U21-A05A2B
H03M-009	U21-A05B
H03M-011	U21-A05D
H03M-013	U21-A06
	W01-A01B
	W01-A01B4
H03M-013/05-21	W01-A01B1
H03M-013/09-11	W01-A01B1A
H03M-013/23	W01-A01B2G
H04B	W02
	W03
H04B-001	W02-G
	W03
H04B-001/02	W02-G01
H04B-001/02-04	W02-G01
H04B-001/03-036	W02-G01H
H04B-001/04	W02-G01
H04B-001/06	W02-G03
	W03-B
H04B-001/08	W02-G03H
	W03-B01A8
	W03-B05
H04B-001/10	W02-G03B1
H04B-001/10,H04B-001/30	W02-G03B4G
H04B-001/10,H04H-040	W03-B02C3A
H04B-001/10-12	W02-G03B
H04B-001/14	W02-G03B2
H04B-001/16,28	W02-G03C1
	W03-B02B1
	W02-G03
H04B-001/26	W03-B01A5
	W02-G03C
H04B-001/30	W02-G03A8
	W03-A01B6
	W03-B01A6
H04B-001/38-58	W02-G02
H04B-001/46	W02-G02A5C
H04B-001/59	W05-D08G
	W02-G05
	W05-D08G
H04B-001/62	W02-G04B
H04B-001/64	W02-G04B1
	W02-G04B9

H04B-001/66	W02-G04
H04B-001/69-713	W02-K05
H04B-001/707	W02-K05A7
H04B-001/713	W02-K05A6
H04B-001/74	W02-G08
H04B-003	W02-C01
H04B-003/03	W02-C01X
H04B-003/04-18	W02-C01B
H04B-003/20-23	W02-C01C1
H04B-003/26	W02-C01B
H04B-003/28	W02-C01C3A
H04B-003/30	W02-C01C3B
H04B-003/32-34	W02-C01C2
H04B-003/36-38	W02-C01E
H04B-003/40-42	W02-C01X
H04B-003/44	W02-C01E1
H04B-003/46-48	W02-C01D
H04B-003/50	W02-C01X
H04B-003/52	W02-C01A1
H04B-003/54	W02-C01A3
H04B-005	W02-C02G7
H04B-005/00	W02-C02
H04B-005/04	W02-C02G5
	W05-A05C
H04B-005/06	W02-C02
	W04-S05C1
H04B-007	W02-C03
H04B-007/02-08	W02-C03A
H04B-007/02-12	W02-C03A5
H04B-007/10	W02-C03A4
H04B-007/12	W02-C03A3
H04B-007/14-17	W02-C03B
H04B-007/185-195	W02-C03B1B
H04B-007/204-216	W02-C03B
	W02-C03B1D
	W02-C03B2
	W02-K
H04B-007/24	W02-C03D
H04B-007/26	W02-C03C
H04B-010	W02-C04
H04B-010/03-079	W02-C04C1
H04B-010/11-118	W02-C04B2
H04B-010/25	W02-C04B1
H04B-010/2507-2569	W02-C04B1
	W02-C04A7
H04B-010/2575-2587	W02-C04B1
H04B-010/27	W01-A06C1
	W02-C04
H04B-010/272	W01-A06B3
	W01-A06C1
	W02-C04
H04B-010/275	W01-A06B2
	W01-A06C1
	W02-C04
H04B-010/278	W01-A06B1
	W01-A06C1
	W02-C04
H04B-010/29-299	W02-C04A5
H04B-010/40-43	W02-C04A4
H04B-010/50-556	W02-C04A1
H04B-010/564	W02-C04A1C
H04B-010/572-588	W02-C04A1
H04B-010/60-69	W02-C04A3
H04B-010/70-85	W02-C04
H04B-010/90	W02-C09
H04B-011	W02-C07
H04B-014/02-06	W02-C06C
	W02-C06
H04B-015	W02-H
H04B-017	W02-C05
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	W02-F
H04H-020/12-14	W02-D04
	W02-F04
H04H-020/38	W02-F10
H04H-020/47-49	W02-E
	W02-F06B
H04H-020/51	W02-D05A
	W02-E
	W02-F06A
	W02-F06B
H04H-020/59	W02-D
	W02-F
	W05-B08
H04H-020/78-79	W02-F03A
H04H-020/81	W02-E
	W02-F06B
H04H-020/88-9	W01-C05B5A
	W02-D
	W02-F
H04H-040	W03-A
	W03-B
H04H-040/90	W03-A16A
	W03-B06A
H04H-060	W02-D
	W02-F
H04J	W02-K
H04J-001,-011	W02-K07C
H04J-001/00-20	W02-K01
H04J-003	W02-K02
H04J-003,H04Q	U21-B05E
H04J-003/04	W02-K02
H04J-003/06	W02-K02A
H04J-003/07	W02-K02A3
H04J-003/08	W02-K02B3
H04J-003/08,12-14	W02-K02B
H04J-003/12	W02-K02B1
H04J-003/14	W02-K02B5
H04J-004/00	W02-K07A
H04J-004/00,-011/00	W02-K07
H04J-011/00	W02-K07E
H04J-013	W02-K08
H04J-013/00-06	W02-K05
H04J-013/04	W02-K05A7
H04J-013/06	W02-K05A6
H04J-014	W02-K04
H04K	W02-L
	W02-F10N1
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H04L,H04B-010	W01-A07E
H04L-001	W01-A01
	W03-A10A1
H04L-001/002-018	W01-A01A
H04L-001/02	W01-A01A
H04L-001/20-24	W01-A01C
H04L-005	W01-A03
H04L-005/14-18	W01-A03D
H04L-005/22-26	W01-A03C
H04L-007	W01-A04
H04L-007/02	W01-A04B
H04L-007/027	W01-A04B2
H04L-007/033	W01-A04B1
H04L-007/04-10	W01-A04A
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H04L-007/08	W01-A04A2
H04L-007/10	W01-A04A9

H04L-009	W01-A05
	W01-A05E
H04L-009/06-30	W01-A05A
H04L-009/32	W01-A05B
H04L-012	W01-A06
H04L-012/02-16	W01-A06
H04L-012/18	W01-A06E1A
H04L-012/24-26	W01-A06A
H04L-012/28	W01-A06B5A
	W01-A06B5B
	W01-A06B7
H04L-012/28,H04M-011	W01-A06B5C
H04L-012/40	W01-A06B1
H04L-012/403	W01-A06B1
	W01-A06E2A
H04L-012/407	W01-A06B1
	W01-A06E2B
H04L-012/417	W01-A06B1
	W01-A06E2B
H04L-012/42	W01-A06B2
H04L-012/423	W01-A06B2
	W01-A06E2A
H04L-012/427	W01-A06B2
	W01-A06E2B
H04L-012/43	W01-A03C
	W01-A06B2
H04L-012/433	W01-A06B2
	W01-A06E2B
H04L-012/437	W01-A06A
	W01-A06B2
H04L-012/44	W01-A06B3
	W01-A06B4
H04L-012/46	W01-A06G3
H04L-012/50-52	W01-A06G1
H04L-012/54-58	W01-A06G2
H04L-012/66	W01-A06G3
H04L-012/70	W01-A03B
H04L-012/701	W01-A03B
	W01-A06E1J
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	W01-A06A1
	W01-A06E1J
H04L-012/715-749	W01-A03B
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H04L-012/751	W01-A03B
	W01-A06A3
	W01-A06E
H04L-012/753	W01-A03B
	W01-A06A3
	W01-A06E1J
H04L-012/755	W01-A03B
	W01-A06A3
	W01-A06E
H04L-012/757	W01-A03B
	W01-A06A3
	W01-A06E1J
H04L-012/759	W01-A03B
	W01-A06A3
	W01-A06E
H04L-012/761	W01-A03B
	W01-A06E1A
	W01-A06E1J
H04L-012/763	W01-A03B
	W01-A06E1J
H04L-012/771-775	W01-A06G5E
H04L-012/781	W01-A03B
	W01-A06E1J
	W01-A06F2
H04L-012/801-841	W01-A03B
	W01-A06E1L
	W01-A06E1J
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	W01-A06A3
	W01-A06E1L
H04L-012/901-905	W01-A03B
	W01-A06E1
	W01-A06G3
H04L-012/911-927	W01-A03B
	W01-A06E1L
H04L-012/931-935	W01-A06G5
H04L-012/937	W01-A06E1
H04L-012/939-945	W01-A03B
	W01-A06A1
	W01-A06E1
H04L-012/947	W01-A06E1J
H04L-012/951-955	W01-A03B
H04L-013-017	W01-A07
H04L-015/00-34	W01-A07A
H04L-015/04-22	W01-A07A
	W01-A07C
H04L-015/24-34	W01-A07A
	W01-A07D
H04L-017/00-30	W01-A07B
H04L-017/02-14	W01-A07C
	W01-A07B
H04L-017/16-30	W01-A07D
H04L-025	W01-A08
H04L-025/03-04	W01-A08B2
H04L-025/20-28	W01-A06G5G
H04L-025/30-36	W01-A08C
H04L-025/38-66	W01-A08A
H04L-025/40-52	W01-A08A1
H04L-025/48	W01-A08A1A
H04L-025/50	W01-A08A1B
H04L-025/52-66	W01-A06G5G
H04L-027	W01-A09
H04L-027/02-08	W01-A09A1
H04L-027/02-16	W01-A09A
H04L-027/10-16	W01-A09A2
H04L-027/18-24	W01-A09B
H04L-027/26-30	W01-A09D
	W02-K05
H04L-027/34-38	W01-A09C
H04L-029	W01-A07G9
	W01-A07X
H04L-029,H05K-005	W01-A07J
H04L-029/02	W01-A07F
H04L-029/04	W01-A07F1
H04L-029/06	W01-A07G
H04L-029/08	W01-A07G1
H04L029/10	W01-A07H2
H04L-029/10	W01-A07H1
	W01-A07H4
H04L-029/10-12	W01-A07H
H04L-029/10-12, H04M-001	W01-C01R
H04L-029/14	W01-A07L
H04M	W01-C
H04M-001/00-78	W01-C01
H04M-001/02,23	W01-C01A2
H04M-001/24	W01-C01K
H04M-001/26	W01-C01B8
H04M-001/26-56	W01-C01B
H04M-001/27-278	W01-C01B1
H04M-001/30-54	W01-C01B7
H04M-001/36,66	W01-C01B5

H04M-001/56	W01-C01B3
H04M-001/57	W01-C01F3
H04M-001/57,66	W01-C01F
H04M-001/58	W01-C01C3
H04M-001/58-65	W01-C01C
H04M-001/60	W01-C01C1
H04M-001/64,65	W01-C01C5
	W01-C01P3
H04M-001/66	W01-C01F5
H04M-001/72	W01-C01D1
H04M-001/725-737	W01-C01D1
H04M-001/738-76	W01-C01L
H04M-001/80	W01-C01N
H04M-001-009	W01-C01G1
H04M-003	W01-C02
H04M-003/02,18	W01-C02D5
H04M-003/02-04	W01-C02D3
H04M-003/06	W01-C02D1
H04M-003/08,22	W01-C02A7
H04M-003/08-14	W01-C02A
H04M-003/22-36	W01-C02A1
H04M-003/36	W01-C02A1A
H04M-003/38	W01-C02B6
H04M-003/42	W01-C02B
H04M-003/44-45	W01-C02B5
H04M-003/46	W01-C02B2C
H04M-003/48	W01-C02B3
H04M-003/50-52	W01-C02B4
H04M-003/53	W01-C02B4
H04M-003/533	W01-C02B7C
H04M-003/54	W01-C02B2N
	W01-C02B2E
H04M-003/54,58	W01-C02B2
H04M-003/56	W01-C02B1
H04M-003/58	W01-C02B2L
H04M-003/58	W01-C02B2M
H04M-003/60	W01-C02C
H04M-003/60-64	W01-C02D
H04M-005	W01-C09
H04M-007	W01-C03
H04M-009,-013	W01-C04
H04M-009/08	W01-C01G2
H04M-011	W01-C01P
	W01-C05
	W01-C01F6C
H04M-011/02,04	W01-C05A
H04M-011/06-10	W01-C05B
H04M-011/08	W01-C05B5A
	W01-C05B5C
H04M-011/10	W01-C05B5E
H04M-015	W01-C01B4
	W01-C01J
	W01-C06
H04M-015/28,30	W01-C01J
H04M-017	W01-C07A
	W01-C07A
H04M-017,-003	W01-C07A7
H04M-017,-019	W01-C07
H04M-019	W01-C07B
H04M-019/00-06	W01-C02E
H04M-019/02	W01-C01F1
H04M-019/08	W01-C01E
H04N	S06
	S06-K
	W03-A
	W04-F
	W04-M
	W04-N
	W04-P
	W04-Q
H04N-001	S06
H04N-001/024-032,23	S06-G
H04N-001/024-036,23-29	S06
H04N-001/028	S06-D05
H04N-001/028,	U14-H01B
H04N-001/028,001/19	S06-D
H04N-001/032	S06-G03
H04N-001/032,23	S06-H
H04N-001/032-036,23-29	S06
H04N-001/036	S06-E
H04N-001/04-20	S06-D03
H04N-001/04-20,31	S06-D04
H04N-001/047,001/053	S06-D04A
H04N-001/21,32-44	S06-K07
H04N-001/21,64	S06-K07A4
H04N-001/31	S06-K03
H04N-001/32,333,42	S06-K07C4
H04N-001/32,36,42	S06-K07C5
H04N-001/32,411,42,64	S06-K07C3
H04N-001/32-36,42-44	S06-K07C6
	S06-K07C2B
H04N-001/32-36, 42-44,64	S06-K03C
H04N-001/38-40,50	S06-K04A4C
H04N-001/38-409, 001/46-62	S06-K04A4C
	S06-K07
H04N-001/38-409,52-62	S06-K07A4
H04N-001/387	S06-K04A4B
H04N-001/393	S06-K04A4A
H04N-001/401	S06-K04A4A
H04N-001/40-401	S06-K07A4
H04N-001/41-419,64	S06-K07A4D
H04N-001/44	S06-K07C7
H04N-001/46,50-64	S06-K01
H04N-003	W03-A08A1
	W04-M
H04N-003/02-08	W03-A08F
	W04-M01E5
H04N-003/09	W04-M01E1
	W04-M01E5
H04N-003/16	W03-A08A1
H04N-003/18-19	W03-A08A1C
H04N-003/20	W03-A08A7A
H04N-003/223	W03-A08A1F
H04N-003/227	W03-A08A1E
H04N-003/23-237	W03-A08A1D
H04N-003/24	W03-A08A7
H04N-003/24,-005/46	W03-A08A7C
H04N-003/26	W03-A08A3A
H04N-003/27	W03-A08A
	W03-A11B1A
H04N-003/30	W03-A08A1J
H04N-003/30-32	W03-A08A1G
H04N-003/36-40	W04-M02
H04N-005	W03
	W04
H04N-005/04-06	W03-A06
H04N-005/067-073	W04-M05
H04N-005/08	W03-A06A
H04N-005/10	W03-A06C
H04N-005/14	W03-A04
	W04-P
H04N-005/16-18	W03-A04C
	W04-P01K

H04N-005/202	W03-A04A
	W04-P01E1
H04N-005/205	W03-A04B
	W04-P01E
H04N-005/208	W03-A04B1
	W04-P01E5
H04N-005/21	W03-A04G
	W03-A04H
	W04-P01F
	W03-A04G
H04N-005/21,-009/78	W03-A05B5
H04N-005/213	W02-G03B5
	W03-A04H
	W04-P01F1
H04N-005/217	W04-M01D6
	W04-P01H1
	W04-P01H3
H04N-005/222	W04-N
H04N-005/225	W04-M01C3
	W04-M01P5
	W04-M01D8
	W04-M01C
H04N-005/225,232	W04-M01D3C
	W04-M01D
	W04-M01D1
H04N-005/225,232,278	W04-M01D4
H04N-005/225,335	W04-M01M
H04N-005/228	W04-M01A
H04N-005/232	W04-M01D5A
	W04-M01D5B
	W04-M01D5C
	W04-M01D
H04N-005/262	W04-N05
H04N-005/262,272, -9/74	W04-N05C
H04N-005/265	W04-N05B1
H04N-005/268	W04-N05B5
H04N-005/272	W04-N05C5
H04N-005/272,275	W04-M01S
H04N-005/275	W04-N05C5A
	W04-N05C5E
H04N-005/278	W04-M01D4
	W04-N05C1A
H04N-005/28	W04-N01
H04N-005/30	W04-M01
H04N-005/31	W04-M01F5
H04N-005/32-325	W04-M01F1
H04N-005/33	W04-M01E1
H04N-005/335	W04-M01C3E
	W04-M01B5
	W04-M01B
H04N-005/335,101/00	W04-M01B1
H04N-005/335,781,85	W04-M01B1E
H04N-005/341-349	W04-M01B5A
H04N-005/44	W03-A01B5
	W03-A15
	W03-A
	W03-A18A2
H04N-005/44,-007/10	W03-A01A5
H04N-005/44,-007/20	W03-A01A1
H04N-005/44,H04Q-009	W03-A02C5G
H04N-005/44,H05K	W03-A19
	W03-A19A
	W03-A19C
H04N-005/445	W03-A13
H04N-005/45	W03-A13B
H04N-005/455	W03-A03C
H04N-005/46	W03-A11
H04N-005/46,-009/66	W03-A05D1
H04N-005/50	W03-A01C
	W03-A02A
H04N-005/52-56	W03-A03A
H04N-005/57	W03-A04D
H04N-005/58	W03-A04D5
H04N-005/59	W03-A04D1
H04N-005/60	W03-A03
H04N-005/62	W03-A03C1
H04N-005/63	W03-A07
H04N-005/64	W03-A09A1
H04N-005/645	W03-A09A5
H04N-005/65	W03-A08E
	W03-A08X
	W03-A09
H04N-005/655	W03-A09A5
H04N-005/66	W03-A08
H04N-005/68	W03-A08A8
H04N-005/70	W03-A08C
	W03-A08X
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H04N-005/76	W04-F
H04N-005/761	W04-E04C8
H04N-005/765-775	W04-K
H04N-005/78	W04-B
H04N-005/781	W04-B14
H04N-005/782-783	W04-B10G
	W04-B10
	W04-B10D
	W04-B10
H04N-005/84	W04-C
H04N-005/84-85	W04-C10A3
H04N-005/907	W04-P01C8
	W04-F01M
	W04-P01C
H04N-005/91	W04-F01
H04N-005/911	W04-F01E
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H04N-005/91-956, -9/79-898	W04-F01
H04N-005/919-917	W04-F01F
H04N-005/92-973	W04-F01
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H04N-005/95-956	W04-F02B
H04N-007	W02-F
	W04-P
H04N-007/01	W03-A11A
	W04-N05A
H04N-007/01,26	W04-F01H3A
	W04-N05A1
H04N-007/015	W02-F06C
H04N-007/025	W02-F05B
	W04-N05C1A
H04N-007/081-088	W02-F05B
	W03-A10
H04N-007/087	W03-A10C
	W03-A10A1
H04N-007/10	W02-F03A
H04N-007/10,173	W03-A16C5G
H04N-007/12	W02-F07M
H04N-007/14	W02-F08
H04N-007/15	W02-F08A
H04N-007/16	W02-F05A
	W03-A16C3
H04N-007/16-173	W02-F10N1

H04N-007/167-171	W02-F05A1A
	W02-F05A1B
	W02-F10N1
	W03-A16C3A
H04N-007/173	W02-F10
	W03-A16C5
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H04N-007/20	W02-F06A
	W02-F03A7
H04N-007/22	W02-F03A3
H04N-007/24-28	W02-F07M
	W04-F01F
	W04-P01A
H04N-007/30	W02-F07B
	W04-P01A3
H04N-007/32-44	W02-F07C
	W04-P01A5
H04N-007/46	W02-F07D
	W04-P01A7
H04N-007/48-50	W02-F07M
	W04-P01A4
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	W04-P01A
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H04N-009/28-285	W03-A08A5
H04N-009/29	W03-A08A4
H04N-009/31	W04-Q01
H04N-009/44	W03-A05A
H04N-009/45	W03-A05A1
H04N-009/455	W03-A05A3
H04N-009/65	W04-Q05
H04N-009/66	W03-A05D
H04N-009/67	W03-A05E
H04N-009/68-69	W03-A05C
H04N-009/70-71	W03-A05C3
H04N-009/73	W03-A05C5
	W04-P01D
H04N-009/74	W04-N05C
H04N-009/75	W04-N05C5A
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H04N-009/78	W03-A05B
	W04-P01L
H04N-009/79-877	W04-F01D
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H04N-011	W02-F02
H04N-013/02	W04-M01L
H04N-013/04	W03-A12A
H04N-015	W02-F03B
H04N-017	W02-F04
H04N-019	W04-P01A
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H04N-019/50	W04-P01A5
H04N-019/60	W04-P01A3
H04N-019/61-615	W04-P01A4
H04N-019/67	W04-P01A6
H04N-019/91-93	W04-P01A4J
H04N-021	W02-F10
	W03-A16
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H04N-021/2225	W02-F10A1
	W02-F10K
	W03-A16C5A
H04N-021/226-233	W02-F10K
H04N-021/234-2343	W02-F10A
	W02-F10K
H04N-021/2347	W02-F10A
	W02-F10K
	W02-F10N1
H04N-021/235-2362	W02-F05C
	W02-F10K
	W02-F10N1
H04N-021/2365-2368	W02-F10A
	W02-F10K
H04N-021/237-2385	W02-F10K
H04N-021/2387	W02-F10K
	W04-E20T
H04N-021/2389	W02-F10
H04N-021/239	W02-F10N7
H04N-021/24-254	W02-F10K
H04N-021/2543-2547	W02-F10N5
H04N-021/258	W02-F10N
	W02-F10Q
H04N-021/262	W02-F10
H04N-021/266	W02-F10A
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	W02-F10A
H04N-021/2665	W02-F10
H04N-021/2668	W02-F10Q
H04N-021/27-274	W02-F10K
H04N-021/2743	W02-F10A
	W02-F10F
	W02-F10K
H04N-021/2743-2747	W02-F10A
	W02-F10K
H04N-021/278	W02-F10E5
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H04N-021/418	W03-A16C3C
H04N-021/4223	W03-A16
	W04-M01
H04N-021/4227	W03-A16
	W03-G05A
	W04-E04
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H04N-021/431	W03-A02C5A
	W03-A16
	W04-E04A
	W04-J03C
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	W04-B14C3
H04N-021/436-4367	W03-A16
	W03-G05C1
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H04N-021/438-439	W03-A16
H04N-021/44	W03-A16C5A
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	W03-A16C5A
H04N-021/4405-4408	W03-A16C3
	W03-A16C5A
H04N-021/441-4415	W03-A16C3C
	W03-A18A6
H04N-021/442-4425	W03-A16
	W03-A18A2
H04N-021/443	W03-A16
	W03-A18A2
	W03-A18A8
H04N-021/45	W03-A18A5C
H04N-021/454-4545	W03-A18A5G
H04N-021/458	W03-A16G
	W03-A18A8A
H04N-021/462	W03-A11A
	W03-A13J
H04N-021/4623-4627	W03-A16C3

H04N-021/466	W03-A18A5C
H04N-021/47-4728	W03-A16C5
H04N-021/475	W03-A18A5C
	W03-A18A6
H04N-021/478	W03-A16C5
H04N-021/4782	T01-N03A1
	W03-A16C5K
H04N-021/4786	T01-N01C
	W03-A16C5K
H04N-021/4788	T01-N03A1C
	W03-A16C5K
H04N-021/60-61	W01-A06
	W02-F03
	W02-F10
H04N-021/6334	W02-F10N3
H04N-021/637-6379	W02-F10N7
H04N-021/64-6547	W02-F10
H04N-021/658-6587	W02-F10N7
H04N-021/80-8355	W02-F10
H04N-021/8358	W02-F10N1C
	W04-F01L3
	W04-G01L3
H04N-021/84-8405	W02-F10E5
H04N-021/845-858	W02-F10
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H04Q	W03-G05
	W01-B
H04Q-001/02-16	W01-B20
H04Q-001/20-26	W01-B08
H04Q-001/30-50	W01-B09
H04Q-003	W01-B01
	W01-B02
H04Q-003/545	W01-B02A1
H04Q-003/54-555	W01-B02A
H04Q-003/58-68	W01-B03A
H04Q-003/58-78	W01-B03
H04Q-003/70-78	W01-B03C
H04Q-005/00-24	W01-B04
H04Q-007	W01-B05
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	W02-C03C
H04Q-007/06	W01-B05A
H04Q-007/08	W01-B05A5
	W05-A05C
H04Q-007/10	W01-B05A5
	W05-A05C1E
H04Q-007/12	W01-B05A5
	W05-A05C
H04Q-007/14-18	W05-A05C1A
H04Q-007/20	W01-B05A
	W02-C03C
H04Q-007/22	W01-B05A1A
	W02-C03C1
H04Q-007/24	W01-B05A1
H04Q-007/26	W01-B05A1
	W01-C02G5
H04Q-007/28	W01-B05A
	W01-B05A7
	W02-C03C3G
H04Q-007/30	W01-B05A
	W02-C03C1B
	W02-C03C3B
H04Q-007/32	W01-C01D1
	W01-C01D3
H04Q-007/34	W01-B05A
	W01-B08
	W01-C01K
	W02-C05
H04Q-009	W03-G05A
	W05-D
H04Q-011	W01-B07
H04R	V06-V
H04R,H04N-005/44	W03-A15C
H04R,H04R-001	W04-S01C
H04R,H04R-025	W04-Y02
H04R,H04R-027	W04-S05C
H04R-001	V06-V02
	W04-S01
H04R-001,-027	W04-S
H04R-001/02-04,14-18	V06-V02E
	V06-V02F
H04R-001/20-40	V06-V02G
H04R-001/20-40	W04-S01E5
H04R-003	V06-V02S
	W04-T
H04R-005	W04-R
H04R-007	V06-V02A
H04R-009	V06-V01A
H04R-009-023	V06-V
H04R-011-015,-023	V06-V01A2
	V06-V04B
	V06-V01X
H04R-017	V06-V01B
H04R-019	V06-V01C
H04R-025	W04-Y
H04R-027	W04-S05
H04R-029	V06-V03B
H04R-031	V06-V03
H04S	W04-R
H04S-003	W04-R01E
H04S-005	W04-R01A
H04S-007	W03-C03A
	W04-R
H04W	W01-A06C4
	W01-B05A1
	W02-C03C
H04W-004/02-04	W01-C02B7L
H04W-004/06	W01-A06E1A
	W01-B05A1M
H04W-004/10	W01-C05B4G
H04W-004/14	W01-B05A1F
	W01-C02B7D
H04W-004/16	W01-C02B2
H04W-004/24-26	W01-A06E1E
	W01-C06
H04W-008/00	W01-A06E
H04W-008/02	W01-A06E1
	W01-B05A1
	W02-C03C1E
H04W-008/04-06	W01-A06E1
	W01-E01C1
	W01-E01C3
	W02-C03C1E
H04W-008/08-16	W01-A06E1
	W01-B05A1
	W02-C03C1E
H04W-008/18	W01-A06E
	W01-B05A1
H04W-008/20	W01-E01C5
H04W-008/22	W01-A06E
	W01-B05A1
H04W-008/24	W01-E01C5
H04W-008/26-28	W01-A06E1
	W01-B03C
	W01-B05A1
H04W-008/30	W01-A06E

H04W-012	W01-A06E1C
	W01-C02B6A
H04W-016/02-16	W01-A06E1L
	W02-C03G1
H04W-016/22	W01-A06D
	W02-C03E5
H04W-016/24	W02-C03C1
H04W-016/26	W02-C03C1B
H04W-016/28	W02-C03A4
	W02-C03C1
H04W-016/30-32	W02-C03C1A
H04W-024/00-04	W01-A06A
	W01-A06E
H04W-024/06	W01-A06A3
	W01-A06D
	W02-C03E5
H04W-024/08	W01-A06A3
H04W-028/00-26	W01-A06E1L
	W02-C03G1
H04W-036/00-18	W02-C03C1D
H04W-036/20	W02-C03C1D
	W02-H01J5
H04W-036/22-28	W02-C03C1D
H04W-036/30	W01-A01C
	W02-C03C1D
	W02-G03J1A
	W02-G03J5A
H04W-036/32-38	W02-C03C1D
H04W-040/00-38	W01-A06E1J
H04W-048/00-20	W01-A06E1
H04W-052/00-04	W02-C03E3
H04W-052/06-16	W02-C03E3A
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H04W-052/20	W01-A01C1C
	W02-C03E3
H04W-052/22	W02-C03E3
H04W-052/24	W02-C03E3
	W02-G03J1A
	W02-G03J5A
H04W-052/26	W01-A06A3
	W02-C03E3
H04W-052/28-38	W02-C03E3
H04W-052/40	W02-C03A
	W02-C03C1D
	W02-C03E3
H04W-052/44	W02-C03E3
H04W-052/46	W02-C03B2
	W02-C03E3
H04W-052/48	W01-A01A
	W02-C03E3
H04W-052/50	W02-C03E3
H04W-052/52	W02-C03E3
	W02-G01C1
H04W-052/54-60	W02-C03E3
H04W-060/00-06	W01-E01C3
H04W-064/00	W02-C03C1E
H04W-072/00-14	W01-A06E1L
	W02-C03G1
H04W-074/00-04	W01-A06F1
	W02-K
H04W-074/06	W01-A06F1C
H04W-074/08	W01-A06F1A
	W01-A06F1G
H04W-080/00	W01-A06F
H04W-080/02-06	W01-A06F2
H04W-080/08	W01-A06F
H04W-080/10-12	W01-A06F3
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H04W-084/04-08	W01-A06B5B
H04W-084/10-16	W01-A06B5A
H04W-084/18-22	W01-A06B8
H04W-088/02-06	W01-A07H2
	W01-C01D3
	W02-C03C1C
H04W-088/08-12	W01-A06G5C
	W01-B05A1
	W02-C03C1B
H04W-088/14	W01-A06G3
H04W-088/16	W01-A06G5C
H04W-088/18	W01-A06A
	W01-A06E
H05B	X25-B
	X26-C
H05B-001	X25-B04
H05B-003	X27-C02
	V01-A02A7D
	X25-B01
	X27-E02
H05B-003/02-08	X25-B01A
H05B-003/10-18	X25-B01B
H05B-003/22-38	X25-B01C
H05B-003/34-38	X25-B01C3
H05B-003/42-58	X25-B01D
H05B-003/60-66, 78-82	X25-B01E
H05B-003/62-66	X25-B01E1
H05B-003/68-76	X25-B01C1B
H05B-003/78-82	X25-B01E2
H05B-003/84-86	X25-B01C1C
H05B-006	X25-B02
H05B-006/02-34	X25-B02A
H05B-006/36-44	X25-B02A1
H05B-006/46-62	X25-B02D
H05B-006/64-80	X27-C01
	X25-B02B
H05B-006/80	X25-B02B1
H05B-007	X25-B03
H05B-007/02-14	X25-B03A
H05B-007/16-22	X25-B03B
H05B-031	X26-A01A
H05B-033	U14-J
	X26-J
H05B-033,H01L-041	U11-C01J7
H05B-033/04	U14-J02B
H05B-033/06,26,28	U14-J02A
H05B-033/08	U14-J03
H05B-033/10	U14-J01
H05B-037	X26-C03
H05B-037/02	X26-C03A
H05B-037/03-04	X26-C03X
H05B-039	X26-C02
H05B-041	X26-C01
H05B-041/02-12	X26-C01B1
H05B-041/14-24	X26-C01B
H05B-041/14-298	X26-C01B2
H05B-041/231	X26-C01B4
H05B-041/232-234	X26-C01B5
H05B-041/26-29	X26-C01B2A
H05B-041/30-34	X26-C01A
H05B-041/36,44-46	X26-C01X
H05B-041/38-42	X26-C01C
H05F	X25-S
H05G	V05-E
H05G-001	V05-E02
H05G-001/10-24	V05-E02A
H05G-001/30-54	V05-E02C

H05H	V05-E03A
	V05-E03B
	V05-E03C
H05H,H05G-002	V05-E03
H05H-001	X14-F
	U11-C09C
H05H-003/06	V05-E06
H05H-003-005,-007	X14-G
H05H-007,-011-013	X14-G02
H05H-007-009	X14-G01
H05K	W03-G01
	W02-A07B1
H05K-001	V04-Q
H05K-001/02	V04-Q05
H05K-001/03-05	V04-R07L
H05K-001/09	V04-R02P
H05K-001/11	V04-Q01
H05K-001/14	V04-Q02B
H05K-001/16	V04-Q04
H05K-001/18	V04-Q02A
H05K-003	U14-H03F
	U14-H03F1
	U14-H03F2
	V04-R
H05K-003/02-08	V04-R01C
H05K-003/10-20	V04-R02
H05K-003/22	V04-R03
H05K-003/24	V04-R03A
H05K-003/26	V04-R03C
H05K-003/28	V04-R03E
H05K-003/30-32,36	V04-R04
H05K-003/34	V04-R04A
H05K-003/38	V04-R07P1
H05K-003/42	V04-R02C
H05K-003/44	V04-R07B
H05K-003/46	U14-H03F
	V04-R05A
H05K-005/02	V04-S
H05K-005/04-06	V04-S01
H05K-005/06	V04-S02A
H05K-007	V04-T
H05K-007/02-12	V04-T01
H05K-007/14-18	V04-T02
H05K-007/20	U24-D01G
	V04-T03
	X12-J01G
H05K-009	V04-U
H05K-011	W03-G03
H05K-013	V04-V
	X12-D07D
H05K-013,H02G-003	X22-X01B
H05K-013/02	V04-R04
	V04-R04G
H05K-013/02-04	V04-V01
H05K-013/06	V04-V02
H05K-013/08	V04-V09

Appendix 4: Concise Guide to EPI and Mechanical Classification

In the following list, the main IPCs for each class are indicated purely as a guide.

P1 AGRICULTURE, FOOD TOBACOO

P11 Soil working, planting
(A01B, C)

P12 Harvesting
(A01D, F)

P13 Plant culture, dairy products
(A01G, H, J)

P14 Animal care
(A01K, L, M)

P15 Tobacco
(A24)

P2 PERSONAL, DOMESTIC

P21 Wearing apparel
(A41, A42)

P22 Footwear
(A43)

P23 Haberdashery, jewellery
(A44).

P24 Hand, travelling articles, brushes
(A45, A46)

P25 Office furniture
(A47B)

P26 Chairs, sofas, beds
(A47C, D)

P27 Shop, household, furnishings, upholstery
Covers upholstery from 201201, prior to 2012 this was classified as Q39.
(A47F, G, H, B68F, G)

P28 Kitchen, sanitary equipment
(A47J, K, L)

P3 HEALTH, AMUSEMENT

P31 Diagnosis, surgery
(A61B)

P32 Dentistry, bandages, veterinary, prosthesis
(A61C, D, F)

P33 Medical aids, oral administration
(A61G, H, J)

P34 Sterilising, syringes, electrotherapy
(A61L, M, N)

P35 Life-saving, fire-fighting
(A62)

P36 Sports, games, toys, saddlery
Covers saddlery from 201201, prior to 2012 this was classified as Q39.
(A63, B68B, C)

P4 SEPARATING, MIXING

P41 Crushing: centrifuging, separating solids
(B02, B03, B04, B07)

P42 Spraying, atomising
(B05)

P43 Sorting, cleaning, waste disposal
(B06, B08, B09)

P5 SHAPING METAL

P51 Rolling, drawing, extruding
(B21B, C)

P52 Metal punching, working, forging
(B21DL)

P53 Metal casting, powder metallurgy
(B22)

P54 Metal milling, machining
(B23B-H)

P55 Soldering, welding metal
(B23K)

P56 Machine tools
(B23P,Q)

P6 SHAPING NON-METALS

P61 Grinding, polishing
(B24)

P62 Hand tools, cutting
(B25, B26)

P63 Working, preserving wood
(B27)

P64 Working cement, clay, stone
(B28)

P7 PRESSING, PRINTING

P71 Presses
(B30)

P72 Working paper
(B31)

P73 Layered products
(B32)

P74 Printing: lining machines
(B41B-G)

P75 Typewriters, stamps, duplicators
(B41JN)

P76 Books, special printed matter
(B42)

P77 Writing, drawing appliances
(B43)

P78 Decorative art
(B44)

P8 OPTICS, PHOTOGRAPHY, GENERAL

P81 Optics
(G02)

P82 Photographic apparatus
(G03B)

P83 Photographic processes, compositions
(G03C)

P84 Other photographic
(G03D-H)

P85 Education, cryptography, adverts.
(G09)

P86 Musical instruments, acoustics
(G10)

Q1 VEHICLES IN GENERAL

Includes mechanical aspects of vehicles in general and associated vehicle equipment.

Q11 Wheels; Tyres; Connections

Alloy, steel, spoked wheels. Hubs, axles, rims, bearings, covers. Snow chains, spikes. Wheel manufacture, assembly and mounting. Inflatable, solid, runflat, heavy duty tyres. Tyre sidewalls, beads, valves, reinforcements, inserts. Tyre manufacture, mounting and inspection. Connections, hitches, towing, draw gear.
(B60B-D)

Q12 Suspension systems

Rigid and resilient suspensions. Springs, dampers, shock absorbers, anti-roll bars. Ride height adjustment. Ball joints, Panhard rods, Watt linkages, trailing arms.
(B60G)

Q13 Powertrain; Chainset; Transmission systems and their control

Automatic, double clutch, manual, semi-automatic, CVT transmissions. Torque converter, clutch, retarder, gearbox, differential. All wheel drive, 4WD. Cranks, pedals. Cooling and lubrication. Powertain/transmission control. Power take-offs.
(B60K, B60W, B62M)

Q14 Vehicle accessories

Seats, saddles, beds. Safety devices, inflatable airbags, seatbelts, crash bars, horns, reflectors. Sun shades/visors, curtains. Mirrors, windscreen wipers. Luggage racks, panniers, mudguards. Side cars, forecars. Anti-theft arrangements, locks. Steps, stands. Heating, ventilating and air-conditioning. Sanitation.
(B60H, B60N, B60Q, B60R, B62H-J)

Q15 Vehicle arrangements for transporting special loads

Loading and unloading arrangements. Ramps, platforms, conveyors, belts, rollers, vibrators. Carrying buildings, meat, animals, reels, vehicles, concrete. Cargo tie-down equipment. On-board weighing equipment.
(B60P)

Q16 Vehicle servicing; Maintenance; Cleaning equipment; Vehicle design and manufacture

Servicing, maintenance, repair. Car wash, cleaning. Vehicle manufacture/assembly.
(B60S)

Q17 Vehicle construction; Fittings; Propulsion arrangements

Subframes, chassis, superstructures. Doors, windows. Sunroofs, convertible roofs. Dashboards, instrumentation. Body finishing parts. Endless tracks. Air-cushion equipment. Engine propulsion arrangements. Engine cooling, mounting, lubricating. Noise/vibration/harshness reduction/control.
(B60J-K, B60R, B60V-W)

Q18 Brake systems; Steering systems; Control

Discs, drums, pads, callipers, valves, cylinders. Disc/drum brake assemblies. Brake cooling. Brake control, pedals, levers. Steering systems. Rack and pinion. Hydraulic power assistance. Steering wheel, steering column.
(B60T, B62L)

Q19 Vehicle applications

Cycles, motorcycles, scooters, mopeds. Cars, vans, trucks, buses, taxis. Military vehicles, tanks. Agricultural vehicles, tractors, combine harvesters. Recreational vehicles, SUV, MPV, motor home, camper van, snow mobile. Emergency vehicles, police car, fire engine, ambulance. Electric and hybrid vehicles.

Q2 SPECIAL VEHICLES

Includes mechanical aspects of special vehicles.

Q21 Railways

Track construction. Station/platform equipment. Monorail, elevated, rope/cable, tramway, funicular, rack railways. Propulsion. Passenger carriage, freight car, wagon, hopper, buffer car. Superstructures, under frames, bogies, doors, windows. Brake systems. Accessories. HVAC, sanitation. Railway servicing, maintenance, manufacture, assembly. Train control. Level crossings, gates, signals, points.
(B60L-M, B61)

Q22 Hand/foot/animal drawn vehicles

Hand carts, wheelbarrows. Perambulators. Sledges/ice boats. Wheelchairs. Foot propelled vehicles. Horse-drawn carts.
(B62B-C)

Q24 Ships; Waterborne vessels; Related equipment

Hulls, frames, keels, decks, bulkheads, masts. Windows, doors, hatches, port holes. Accessories. Heating/ventilating/air-conditioning. Sanitation. Desalination plants. Safety equipment, fire-fighting, lifeboats, life vests. Mooring/anchoring. Ship propulsion, propellers, engines, steering. Boats, submarines, hovercraft, surfboards, canoes. Harbour, dock, pier, jetty, boat hoist. Marine vessel servicing, maintenance, manufacture, assembly.
(B63)

Q25 Aircraft; aviation; cosmonautics

Aircraft construction, fuselage, hull, wings. Doors, windows, undercarriage. Accessories. Sanitation, toilets, shower, HVAC. Safety systems, fire-fighting, oxygen supply, escape slide, parachute. Aircraft propulsion and steering. Altitude/attitude control, flaps, control surfaces. Balloon, helicopter, glider, military, commercial aircraft. Ground equipment, hangar, runway construction. Space vehicles. Aircraft/spacecraft servicing, maintenance, manufacture, assembly.
(B64)

Q3 CONVEYING, PACKAGING, STORING

From 2012 manual codes have been assigned for all mechanical details of conveying, packaging and storing
(B65, B66)

Q31 Packaging processes and equipment

From 2012 Q31 has been redefined to cover codes that are intended to highlight the equipment/methods etc. used for packaging/labelling material/goods during primary and secondary packaging. The type of container/bottle being filled/labelled/closed etc., as well as the container material can be specified by assigning Q32 and Q33 codes, respectively. The type of product being packaged/bottled can also be highlighted by the assignment of Q34 codes. For novel details of the actual container/bottle or its closure see Q32 codes instead. Details of transit packaging are coded under Q32-T. Prior to 2012 Q31 remains searchable for packaging and labelling in general.

Q32 Container/Closure Types, Special packaging features and Transit packaging

From 2012 Q32 has been redefined to cover container and closure types and special features of containers/packaging. Q32 codes should be used in conjunction with Q31, Q33 and Q34 codes as appropriate. Manufacturing and recycling details are covered by Q31-R. Prior to 2012 Q32 remains searchable for containers in general.

Q33: Packaging container and closure materials

From 2012 Q33 has been redefined to highlight the material the container or closure is made of. Q33 codes should be used with Q31, Q32 and Q34 as appropriate. Prior to 2012 Q33 remains searchable for closures in general.

Q34: Types of goods packages, bottled, bound, labelled, unpacked

From 2012 Q34 has been redefined to highlight the type of product being packaged/bottled etc. and should be used in conjunction with other Q31-Q33 codes as appropriate. Prior to 2012 Q34 remains searchable for packaging elements/types in general (now covered in general by Q32).

Q35: Refuse Collection; Conveyors

Q36: Handling Thin Materials

Q37 Container traffic (pre-1984 only)

Q38: Hoisting; Lifting; Hauling

Q39 Liquid, handling, saddlery, upholstery – discontinued 2012

From 201201 liquid handling is incorporated into Q31-Q34, saddlery is incorporated into P36 and upholstery is incorporated into P27.

Q4 BUILDINGS, CONSTRUCTION

Q41 Road, rail, bridge construction
(E01)

Q42 Hydraulic engineering, sewerage
(E02,3)

Q43 General building constructions
(E04B)

Q44 Structural elements
(E04C)

Q45 Roofing, stairs, floors
(E04D,F)

Q46 Building aids, special structures
(E04G,H)

Q47 Locks, window and door fittings
(E05)

Q48 Blinds, shutters, ladders, doors
(E06)

Q49 Mining
(E21)

Q5 ENGINES; PUMPS; COMPRESSORS; FLUID PRESSURE ACTUATORS

Includes engines, pumps, compressors, actuators etc. of relevance to the transportation area.

Q51 Internal combustion engines; Reciprocating engines; Rotary engines

Internal combustion engines. Reciprocating, rotary, oscillating piston engines. Hot gas positive displacement engines, steam engines. Pistons and cylinders. Valves and valve drive arrangements. IC engine cooling/lubricating. Fuel systems. Ignition systems. Exhaust systems, silencing, pollution control.
(F01, F02B,D,F,G,M,N,P)

Q52 Reaction engines: External combustion; Gas turbines; Rockets

Gas turbine, turbofan, turboprop, RAMJET, rocket engines. Pulse detonation engines. External combustion engines, steam turbines. Rotors, stators, nozzles, nacelles, afterburners. Fuel systems. Ignition systems. Lubrication and cooling.
(F01D, F02C, F02K, F02M)

Q53 Positive displacement fluid engines (i.e. driven by fluid)

Liquid driven positive displacement engines and motors. Reciprocating, rotary, oscillating piston engines. Valves, pistons, cylinders, seals.
(F03C)

Q54 Non-positive displacement fluid engines (i.e. driven by fluid);

Miscellaneous motors and machines for producing mechanical power/thrust Liquid driven non-positive displacement engines and motors. Impulse, reaction, friction, endless chain type engines. Waterwheels, water turbines. Francis, Kaplan and propeller turbines. Spring motors. Gravity/inertia motors. Wind, solar, geothermal, muscle power motors.
(F03B,D,G,H)

Q55 Positive displacement fluid machines/pumps/compressors (i.e. for driving fluid)

Positive displacement pumps, compressors. Scroll compressors. Reciprocating, rotary or oscillating piston machines. Valves, seals, rotors, casings.
(F04B,C)

Q56 Non-positive displacement fluid machines/pumps/compressors (i.e. for driving fluid)

Radial flow, axial flow, jet and diffusion pumps and compressors. Fans. Siphons. Shafts, bearings, rotors, casings, cavitations reducers.
(F04D,F)

Q57 Fluid pressure actuators; Hydraulic/pneumatics in general

Telemotors. Servomotors. Pyrotechnic actuators Controlling fluid flow. Hydraulics.
(F15)

Q6 ENGINEERING ELEMENTS

Includes novel engineering elements of relevance to the transportation area.

Q61 Fastening elements; Connections

Nuts, bolts, washers. Rivets and rivnuts. Nails, staples, dowels. Clamps, suction cups, hooks. Torque-limiting, anti-tamper, locking, friction grip, key connections.
(F16B)

Q62 Shafts and bearings

Flexible and rigid shafts. Crankshafts, eccentrics. Pivotal connections. Ball joints Ball, roller, sliding contact and hydrodynamic bearings Cooling and lubricating. Manufacture.
(F16C)

Q63 Couplings; Clutches; Brakes; Springs; Dampers Universal joints.

Constant velocity (CV) joints. Slip, yielding, impulse couplings. Fluid couplings. Clutches. Disc, drum and band brakes. Brake pads, callipers. Springs, shock absorbers, dampers. Coil springs and leaf springs.
(F16D,F)

Q64 Belts, Chains, Gearing

Drive belts, timing belts. Drive chains. Pulleys, sprockets, gearing. Cams, cam followers, worms, toothed gears. Fluid gearing. Gearing control, gear levers. Lubrication and cooling.
(F16G,H)

Q65 Pistons, cylinders, packing

Pistons, plungers. Cylinders and liners. Seals, packing. Piston rings
(F16J)

Q66 Valves; Taps; Cocks; Vents

Lift, gate, sliding, diaphragm and rotary valves. Valve seats, seals, casings, housings. Poppet valves. Check valves. Safety/equalising valves. Vent valves.
(F16K)

Q67 Pipes; Joints; Fittings

Pipes and hoses. Pipe/hose connections/joints. Compression joints. Quick fastening/release connections. Seals. Clips. Pipe laying and repair.
(F16L)

Q68 Other engineering elements

Frames. Machinery beds. Engine beds. Axle stands. Trestles. General lubrication arrangements. General safety devices.
(F16M-S)

Q69 Storing/distributing gas/liquid

Pressure vessels. Gas holders/tanks. Vessel filling and discharging equipment. Pipeline systems.
(F16T, F17)

Q7 LIGHTING, HEATING

Q71 Lighting
(F21)

Q72 Steam generation
(F22)

Q73 Combustion equipment/processes
(F23)

Q74 Heating, ranges, ventilating
(F24)

Q75 Refrigeration, liquefaction
(F25)

Q76 Drying
(F26)

Q77 Furnaces, kilns, ovens, retorts
(F27)

Q78 Heat exchange in general
(F28)

Q79 Weapons, ammunition, blasting
(F41,42)

S INSTRUMENTATION MEASURING AND TESTING

Includes electrical aspects of medical equipment, photographic and printing apparatus.

S01 Electrical Instruments

Oscilloscopes, multimeters, electricity meters, semiconductor devices and PCB testing, NMR, MRI, magnetic and electric field measurement, radio test equipment, instrument housing and other details.
(G01R, G12B)

S02 Engineering Instrumentation

Measuring dimensions, weight, flow rate, mechanical vibrations, force, acceleration and velocity measurement, measurement transducers, testing engines and machines, gyroscopes, scales, dials, pointers and other details.
(G01B-H, L, M, P)

S03 Scientific Instrumentation

Photometry, calorimetry.
Thermometers.
Meteorology, geophysics, measurement of nuclear or X-radiation. Investigating chemical or physical properties. Immunoassay, LAB-ON-CHIP, Chemical indicators or reagents.
(G01J, K, N, T-W)

S04 Clocks and Timers

Electronic and mechanical clocks and watches. Time switches. Time-interval measuring.
(G04B-G)

S05 Electrical Medical Equipment

Electrotherapy. Electrosurgical apparatus. Blood cell counters. Electrical diagnostic apparatus. Tomography. Veterinary apparatus.
(A61B, C, F - J, L - N)

S06 Electrophotography and Photography

Cameras, film projectors and processing (electrical aspects only). Electrography, xerography. Rotary press printers (electrical aspects only).
(G03, G03G)

T COMPUTING AND CONTROL

Covers control systems, data recording equipment, computing devices and peripheral apparatus, including construction details.

T01 Digital Computers

Electronic data processors, interfaces and programme control. Mechanical digital computers.
(G06C-F, T)

T02 Analogue and Hybrid Computers

Function evaluators, equation solvers, simulators.
(G06G, J)

T03 Data Recording

Analogue and digital recording on tape, disc etc, using for example, magnetic, optical, magneto-optical, capacitive methods.
(G11B)

T04 Computer Peripheral Equipment

Card and tape punches and readers. Magnetic, optical and smart cards. VDUs, character and graphics generators. Pattern recognition, magnetic ink recognition, bar codes. COM equipment.
(G06K)

T05 Counting, Checking, Vending, ATM and POS Systems

Counting systems. Ticket issuing, registering and franking apparatus. Attendance registering apparatus. Coin and paper currency handling. Point-of-sale equipment. Electronic funds transfer.
(G06M, G07B-G)

T06 Process and Machine Control

General control systems. (Non)numerical, programmable and adaptive control. Control of non-electrical variables e.g. temperature or flow. Control system applications e.g. machine tools, lifts.
(G05B, D)

T07 Traffic Control Systems

Road traffic monitoring. Road traffic control. Traffic light systems, flow control. Traffic, weather and navigation data updating.
(G08G)

U SEMICONDUCTORS AND ELECTRONIC CIRCUITRY

Includes semiconductor components *per se*, their manufacture and circuitry. Circuits using electronic components are included, e.g. filters and oscillators.

U11 Semiconductor Materials and Processes

Semiconductor, insulating and conductive materials. Crystal growth. Substrate and layer processing: deposition, etching, doping and heat treatment. Packages, mountings and assembly. Testing and handling of both integrated and discrete semiconductor devices. (Manufacture of LEDs, lasers, solar cells and aspects of thick film and hybrid circuits are covered in U12
and U14).
(C30B, H01L)

U12 Discrete Devices

Discrete semiconductor devices or specific components of integrated circuits.
Optoelectronic devices: discrete Photodetectors, LEDs and lasers both discrete or array. Solar cells. Hall-effect, magnetoresistive or spintronic devices. Diodes, capacitors and resistors.
Bipolar transistors, thyristors, FETs. Quantum interference devices. Micromechanical devices. Semiconductor transducers.
(H01L)

U13 Integrated Circuits

Digital circuits, especially with matrix array, e.g. ROM, DRAM, SRAM memories, programmable logic and gate array. Solid state image sensors, e.g. CCD, photodetector array.
Excludes routinely integrated circuits with no integration novelty.
(H01L)

U14 Memories, Film and Hybrid Circuits

Digital memories including magnetic, optical, semiconductor, ferroelectric, analog memories. Testing of memories. Thermoelectric devices. Superconductive materials and devices. Acoustic wave devices. Thin film arrays and layers. Thick film and hybrid circuits including multilayer ceramic wiring boards and aspects of manufacture. Electroluminescent light sources. Liquid crystal displays, electrochromic, electrophoretic, electroluminescent and electrowetting displays.
(G11C, H01L)

U21 Logic Circuits, Electronic Switching and Coding

Logic gates, inverters, buffers, field programmable gate arrays. A/D and D/A conversion, position encoders, delta modulation. Code conversion, data compression, error detection and correction. Counter circuits, frequency dividers. Electronic switching, proximity/touch switches.
(H03K, M)

U22 Pulse Generation and Manipulation

Rectangular and triangular wave Oscillators, pulse generators, (astable, bistable, etc). Pulse shaping and manipulation. Pulse modulation and demodulation including PAM, PPM, PFM, and PDM. Digital filters. DSP.
(H03H, K, L)

U23 Oscillation and Modulation Oscillators, mixers.

Amplitude and angle (de)modulation. Frequency and phase comparators. PLLs, indirect and direct frequency synthesisers.
(H03B-D, H03L)

U24 Amplifiers and Low Power Supplies

DC, LF, HF, small signal and power amplifiers. Gain control. Volume compression or expansion. Limiters. Voltage and current stabilisation, power supplies, converters, inverters, rectifiers. Low power protection.
(H03F, H03G; G05F, H02M)

U25 Impedance Networks and Tuning

Tone or bandwidth control. Impedance converters. Analogue filters (active and passive). Voltage dividers, attenuators, impedance matching, baluns. Tuning circuits. AFC.
(H03H, H03J)

V ELECTRONIC COMPONENTS

Includes electrical and electro-optical components. Component mounting and construction details. Electrical discharge devices, for purposes other than lighting, are included

V01 Resistors and Capacitors

Low power fixed and variable discrete devices. Thermistors and varistors. Electrolytic (including double-layer, super- and ultracapacitors) and non-electrolytic capacitors.
(H01C, G)

V02 Inductors and Transformers

Low power inductive components. Communication type inductive components. (Electro)magnets. Magnetic materials.
(H01F)

V03 Switches, Relays

Low power switches and relays. Thermally or magnetically operated switches.
(H01H)

V04 Printed Circuits and Connectors

PCBs and their manufacture. Low power connectors. Electronic apparatus, housings and constructional details. RFI/EMI screening. General circuit manufacture.
(H01R, H05K)

V05 Valves, Discharge Tubes and CRTs

Vacuum tubes, klystrons, TWTs, magnetrons, CRTs, field emission displays, camera tubes, X-ray tubes and operating circuits. Photoelectric discharge tubes, electron multipliers, plasma/ion processing tubes. Electron and scanning probe microscopes. Gas filled tubes. Gas discharge displays.
(H01J, H05G)

V06 Electromechanical Transducers and Small Machines

Audio, communication, and measurement-type transducers. Electromechanical resonators. Small electric machines and their controllers. Micromachines.
(H04R, H03H, H02K)

V07 Fibre-optics and Light Control

Light-guides, optical fibres, integrated optics and optical cables. Connectors, couplers, mode selectors, polarisers. Control of intensity, phase, polarisation, wavelength and direction. Spatial light modulators. Optical fibre amplifiers.
(G02B, F)

V08 Lasers and Masers

Optical resonators. Laser pumping, control e.g. intensity, frequency stabilisation, cooling, testing. Gas, semiconductor, solid state, dye-free electron, X-Ray lasers. Masers.
(H01S)

W COMMUNICATIONS

Covers telecommunications, audio and video equipment, telemetry/telecontrol and radar, aviation, marine and military systems where electrical details are included.

W01 Telephone and Data Transmission Systems

Error detection and correction. Code conversion. Synchronising. Secret data communication. Data networks (LAN, WAN, etc). ISDN. Baseband and broadband data transmission. Exchanges, call metering, test equipment, equipment racks, intelligent network, call centre. Subscriber equipment, cordless, cellular and satellite phones. Telephone line and cable installation.
(H04L, M, Q, W)

W02 Broadcasting, Radio and Line Transmission Systems

Aerials, waveguides, resonators and other distributed constant components. Transmitters, transceivers, transponders. Communication receivers. Line transmission systems. Radio systems, including diversity, relay, mobile (including cellular). Optical and ultrasonic wave transmission systems. Spread Spectrum communication. Secret communication, jamming. TV systems, including stereoscopic, cable, subscription, satellite, interactive and high definition. Stereophonic broadcast systems.
(H01P, Q, H04B, H ,J,K)

W03 TV and Broadcast Radio Receivers

AM/FM and DAB radio receivers, car radios. TV receivers including text aspects and MHEG, DVB, high definition, satellite, 3D/stereoscopic, stereophonic and surround sound. Remote control and interconnection..
(H04)

W04 Audio/Video Recording and Systems

Stereophonic systems, loudspeaker enclosures, public address Audio/visual recording applications, formatting, signal processing and constructional aspects. General audio signal processing and sound mixing. Electronic musical instruments. Video cameras, TV studio and special effects equipment. General video signal processing. Projection TV and analogous systems. Video games, karaoke. Electronic educational apparatus. Sports equipment, toys. Speech coding, analysis and synthesis. Antiphase sound cancelling. Hearing aids. Audio and video aspects of multimedia.
(G10H ,L, G11B, H04N)

W05 Alarms, Signalling, Telemetry and Telecontrol

Burglar and fire alarms. Personal call arrangements. Paging systems. Signal transmission systems for remote control and monitoring, e.g. in home bus systems, vehicle remote control bus systems. Advertising arrangements (electrical aspects).
(G08B, C)

W06 Aviation, Marine and Radar Systems

Radar, sonar and lidar. Velocity and depth measuring equipment. Position fixing and direction finding. Navigation systems, e.g. GPS. Airport control systems. Ship and aircraft control and instrumentation. Flight simulators. Space vehicles, including satellites.
(G01S)

W07 Electrical Military Equipment and Weapons

Target indicating systems. Sighting and aiming devices. Missile direction control. Military training equipment. Arming and safety devices. Electric weapons. Personnel and equipment protection. Battlefield communications. Military reconnaissance.
(F41, F42B, C)

X ELECTRIC POWER ENGINEERING

Includes power generation, storage, distribution and utilisation. Electrical details of ground vehicles. Industrial-use patents with significant electrical detail are included. Patents relating to domestic electrical appliances do not have to contain electrical novelty to be included.

X11 Power Generation and High Power Machines

Conventional power generating prime movers. Dynamo-electric machines. MHD generators.
(H02K, N)

X12 Power Distribution/Components/

Converters High power AC, DC and HVDC distribution/control. Power and communication cables. Superconducting cables, coils and magnets. Installing power cables and lines. Power transformers, reactors. Spark gaps and circuits. Insulators. High power connectors. Power converters. Conductive, superconductive and insulating materials.
(H01B, H01T, H02G, H02J, H02M)

X13 Switchgear, Protection, Electric Drives

Electric machine and static power converter controllers. Switchboards, switchyards, switchgear. Power system protection. Circuit protectors, circuit breakers, fuses.
(H02B, H02H, H02P)

X14 Nuclear Power Generation

Nuclear reactor processes, components and power plants. Control mechanisms. Plasma techniques. Particle accelerators.
(G21, H05H)

X15 Non-Fossil Fuel Power Generating Systems

Geothermal, wind, wave and solar energy, types of power generation.
(F03D, F24J)

X16 Electrochemical Storage

Primary, secondary and fuel cells and batteries. Battery chargers. Non-electrochemical storage of electric energy.
(H01M)

X21 Electric Vehicles

Electric cars, trolley buses, hybrid vehicles, fuel cell vehicles. Propulsion, braking. Traction batteries. Control equipment.
(B60L)

X22 Automotive Electrics

Vehicle accessories. Vehicle lighting. IC engine ignition. IC engine controllers. Batteries and charging. Starting motors, and generators. Engine and vehicle instrumentation. Non-engine related controllers e.g. transmissions, brakes. Passenger safety. Intra/inter-vehicle communications, multiplexing.
(B60K, Q, R, T; F02D, M, N, P; F21M)

X23 Electric Railways and Signalling

Electric propulsion and braking. Traction motors and control. Traction power supplies. Power supply lines, current controllers. Signalling equipment. Railway traffic control.
(B60L, B61L)

X24 Electric Welding

Electric soldering. Arc, induction, electron beam, resistance, laser beam, solid state and HF welding. Electroerosion.
(B23K)

X25 Industrial Electric Equipment

Electric furnaces and kilns. Resistance, induction, electric discharge and EM field heating. Electrostatic spraying and cleaning. Vibrating apparatus. Electrolytic processes, electro-refining metals. Electrically powered tools. Industrial drying equipment. Ore separating magnets. Magnetic work holders, lifting magnets. Textile and paper manufacture, sewing and embroidery machines. Industrial food processing. Industrial components e.g. pumps, fans. Electric construction/building equipment. Electric agricultural equipment. Cryogenics.
(H05B, F27)

X26 Lighting
Discharge, incandescent and electric arc lamps. Operating and control equipment. Light fittings. Portable lighting devices. Stage lighting equipment. LED, EL and fibre-optic illumination, including display back-lighting.
(F21, H01J, H01K, H05B)

X27 Domestic Electric Appliances
Washing machines, dryers, irons. Vacuum cleaners. Electric cookers, microwave ovens. Kitchen equipment. Refrigerators. Water heaters. Space heating and air conditioning equipment. Personal and hygiene electrical appliances. Home automation appliances.
(A47, F24)

Appendix 5 : NANOTECHNOLOGY

This appendix is designed as a quick reference guide for all manual codes across the chemistry, life sciences and engineering technologies that relate to Nanotech industries.

For full details please look up the relevant code in the applicable manual. Classes A-N are covered by the CPI manual and section P-X by the EPI manual.

Note – Items in italics are of nanotech interest but may contain details not applicable to nanotech.

FULLERENES

containing heteroatoms	E05-U01
carbon only	E05-U02
	L02-H04B
electroconductivity agent for polymers	A08-M09A1
thermal conductivity agent for polymers	A08-M09C1

GRAPHENE

carbon nanofilm	E05-U05C
electroconductivity agent for polymers	*A08-M09A1*
thermal conductivity agent for polymers	*A08-M09C1*

NANOBUDS

carbon only	E05-U05D
inorganic	E31-U04

NANOCATALYSTS

N06-C09

NANOCRYSTALS (NON-FERROUS ALLOYS)

M26-C02

NANOELECTROMECHANICAL DEVICE/SYSTEM

actuators	V06-M06G9
control	V06-N22A
electronic switching	U21-B01T
generators	V06-M06G8A
medical devices	S05-Y02
motors	V06-M06G9
control	V06-N22A
relays	V03-D10A
resonators	V06-V01E
	V06-V01K2
semiconductor device	U12-B03F2A
semiconductor structure	U12-B03F2

semiconductor structure, manufacture	U11-C18C
semiconductor system	U12-B03F2B
sensors	S03-H02B
	V06-V01K2
	V06-V04G
switches	V03-C10A
manufacture, testing and monitoring	V03-C07A
DNA switches	B11-C12
	C11-C12
transducers(audio)	V06-V01K2
	V06-V04A

NANOELECTRONIC DEVICE/SYSTEM

cathodes	
image display	V05-D05C5A
field emission device	V05-B05A5C
general	V05-M03A1
X-ray tube	V05-E01C7A
semiconductor structure, manufacture	U11-C13
	U12-E01B2
logic circuit	U21-C01T
sensors	S03-H02B

NANOFIBERS

Carbon nanofibers	E05-U05B

NANOFILMS E31-U03
B05-U05B
C05-U05B

NANOFILTERS J01-C04

NANOHORNS B05-U05A
C05-U05A
E05-U05D
E31-U04

NANOIMPRINTED MAGNETIC RECORD CARRIER T03-A01G3

manufacture	T03-A02G3

NANOIMPRINT LITHOGRAPHY U11-C04J

NANOMATERIALS

battery electrode	X16-E01H1
ceramics/cement	L02-A12
conductive	L03-A02G
	L03-A03N
	X12-D01D
electrolytes	X16-J01E
fuel cell electrode	X16-E06A1A
fuel cell storage	X16-C15C3A
general use	V04-X01B1
insulating, inorganic	X12-E01D
insulating, organic	X12-E02D
magnetic	L03-B02N
	V02-A10
magnetic, manufacture	V02-A10C
magnetic, novel	V02-A10A
structures	U11-A14
	U11-C13
production	J04-F02
wires	X12-D07E

NANOMORPHOLOGY (COLOR CHEMISTRY)

pigment	E27-B01A
dye	E27-B02A
other color chemistry	E27-B03A

NANOPARTICLES B12-M11Q
C12-M11Q

carbon nanoparticles	E05-U05A
inorganic	E31-U01

NANOPARTICULATE PRODUCTION *V05-F08G*

NANOPHASE ALLOYS

ferrous	M27-D03
non-ferrous	M26-C02

NANORELAYS U12-B03F2A
V03-D10A

manufacture	V03-D06B1

NANORODS B05-U05A
C05-U05A

carbon nanorods	E05-U05B
inorganic	E31-U02

NANOSTRUCTURES

electrically-conductive (general)	X12-D02C2D
electrically-insulating (general)	X12-E03D
production	J04-F02
magnetic film	V02-B04

manufacture	V02-H02G
inorganic	B05-U06 C05-U06 E31-U
organic	E05-U
pharmaceutical (other)	B05-U05C C05-U05C
dye or pigment bound to nanostructure	E24-U

NANOTECHNOLOGY

pharma applications (general)	B11-C12 C11-C12
polymers application (general)	A12-W14

NANOTECHNOLOGY DEVICES (THERAPEUTIC) B12-M10A7
C12-M10A7

NANOTUBES

carbon only	B05-U03A C05-U03A E05-U03 L02-H04B V05-B05A5C
used as electroconductivity agent for polymers	*A08-M09A1*
used as thermal conductivity agent for polymers	*A08-M09C1*
carbon plus heteroatom	B05-U04 C05-U04 E05-U04
other 3D structures	B05-U05A C05-U05A
inorganic	E31-U02

NANOWHISKERS

inorganic	E31-U02
organic	E05-U05B

Appendix 6: GREEN TECHNOLOGY

This appendix is designed as a quick reference guide for all manual codes across the chemistry, life sciences and engineering technologies that relate to "green technologies" such as: "green" transportation, e.g. hybrid, fuel cell and other zero emissions vehicles; alternative power sources such as wind and solar power; bio-fuels and any other technologies that enable control of pollution or reduction of carbon footprints.

For full details please look up the relevant code in the applicable manual. Classes A-N are covered by the CPI manual and section P-X by the EPI manual.

Note – Items in italics are of green interest but may contain details not applicable to green technologies.

GREEN TRANSPORTATION	X21
aircraft, muscle/pedal power	Q25-C01G
battery charging	X16-G02
for electric vehicle	X21-B01A
for motor vehicle	X22-F01A
for railway train	X23-A03C
bicycle	Q19-A
	X22-P01
boat	Q24
animal-drawn	Q24-E02G
canoe/kayak	Q24-P20
electric propulsion	W06-B01C6
muscle/pedal power	Q24-E01G
wind (sail) power	Q24-E01E
	Q24-P22
electric vehicle	Q19-P
	X21-A01F
foot propelled vehicles	Q22-M
fuel cell vehicle	X21-A01J
hybrid vehicle	Q19-Q
	X21-A01D
	X22-P04
hybrid-electric	Q19-Q01
	X22-P04A
hybrid-mechanical	Q19-Q05
	X22-P04E
parallel hybrid	X21-A01D1
series hybrid	X21-A01D3
regenerative braking	X13-H01B
	X21-A03C

GREEN POWER SOURCES AND ENERGY GENERATION	A12-W16
battery	X16
catalysts	N07-L03A
for electric vehicle	X21-B01A
electricity generation	
from biomass combustion	X15-E
from exercise machine	W04-X01A5
	X15-X
from vehicle movement	X15-X
from waste fuel combustion	X15-E
flywheel energy storage	Q54-F
	X21-B04
fuel cell	X16-C
	L03-E04
catalysts	N07-L03A
for vehicle	X21-B01A
	X22-F01
polymer details	A12-E06
geothermal power	Q54-H
	X15-G
hydroelectric power	X11-B
dams	X11-B
generators	X11-B
mini/micro plant	X11-B05
pumped storage	X11-B06
turbines/water wheels	X11-B01
muscle power	Q54-I
	X15-X
ocean thermal energy conversion	Q54-X
	X15-C
osmotic power	X11-B09
	X15-C
profiting from waste heat	X15-H
IC engine exhaust heat recovery	Q51-J02F
IC engine waste heat recovery	X22-A17
power generation from traffic flow	X15-T
sea power	X15-C
Seebeck effect	X15-D
salinity gradient power	X11-B09
	X15-C
solar power	Q54-H
	U12-A02
	X15-A
for electric vehicle	X21-B04A
for motor vehicle	X22-F03
photoelectric cells	A12-E11B
solar collector	X15-A01
solar panels	U12-A02A5
	X15-A02B
	L03-E05B
polymer details	A12-R02B
thermoelectric power	X15-D
tidal power	X15-C02

vortex power	X11-B09 X15-C
water power	X11-B X15-C
water turbine	Q54-A X11-B01
generator	X11-B
wave power	X15-C01
wind power	Q54-G X15-B
for boat	Q24-E01E
for electric vehicle	X21-B04A
for motor vehicle	X22-F03
GREEN FOOD TECHNOLOGY	D03-K13
green packaging	D03-K08A
GREEN PACKAGING	Q33-J
food packaging	D03-K08A
packaging in general	Q31 to Q34
polymer packaging	A12-P
biodegradable plastics	A09-A07
scrap recovery/recycling of plastics	A11-C03
by shredding, cutting, pulverising, granulating	A11-C03A
cellulose production (incl. recycling paper bags)	F05-A02B
GREEN FUELS	
biofuels	
produced from algae	B14-Y C14-Y
gaseous biofuels	H06-A04
biogas	H06-A04
ethane	H06-A04
structural details	E10-J02D2
hydrogen	H06-A03
production by electrical means	E31-A02A
hydrogen generation-fuel cell	L03-E04I X16-C17
hydrogen reformer-fuel cell	X16-C17
hydrogen storage-fuel cell	X16-C15
molecular decomposition of hydrocarbons (plasmatron)	V05-F08F
methane	H06-A04
structural details	E10-J02D1
produced by fermentation	D05-C14
liquid biofuels	H06-B07
alcohol	H06-B08
bioalcohol	H06-B08
biodiesel	H06-B04A
bioether	H06-B07
butanol	H06-B08

ethanol	H06-B08
propanol	H06-B08
vegetable oil	H06-B04A
solid biofuels	
from municipal/agricultural	*D05-A04A*
waste treatment	H09-F03
ENVIRONMENTAL AWARENESS	
Biodegradability (of plastics)	A09-A07
environmental vessel for collecting pollution from open water	Q24-P06
green agro-chemicals (general)	C14-Y
green catalysts	N07-K01
green chemistry (general)	E11-K03
applications/compositions	E11-W
green pharmaceuticals (general)	B14-Y
oil spillage cleanup waste containment	H03-G
to prevent water contamination	D04-A05
POLLUTION CONTROL/REDUCTION	
catalytic combustion	N07-L01A
desulphurisation of coal	H09-H02
polymer application	A12-W11
fuel vapour recovery for IC engine	Q51-H02
electrical details	X22-A02E
using coagulants/ flocculants or polyelectrolytes	A12-W11E
other	A12-W11F
oil refinery	H05-L
polymer processing	A11-C07
waste gas treatment	
catalyst details	N07-L01C
for engine exhaust	Q51-J02 E11-Q02A N07-L01C1
for motor vehicle exhaust	Q17-E09 X22-A03J
removal of N oxides	E31-H02
catalytically	E31-H01
removal of S hydride, H_2S	E31-F01B
removal of S oxide SO_2,SO_3, SO_X	E31-F01A
removal of sulphur compounds	E31-F01 N07-L02B
H_2SO_4, thiosulfate	E31-F01C
WATER/WASTE TREATMENT	E11-Q02 N07-L01
industrial waste/effluent treatment	H09-F02 E11-Q02B
capacitor manufacture	
electrolytic	V01-B01G6E
non-electrolytic	V01-B04B8E
semiconductor manufacture	U11-C15Q

resistor manufacture	V01-A04R1
municipal/agricultural waste treatment	H09-F03
polymer waste treatment	A11-C07
purification of non-gaseous hydrocarbons	N07-L01D
removal of materials/compounds	
removal of carbon compounds	N07-L02D
removal of catalyst poisons	E11-Q02C
removal of impurities in general	N07-L02
removal of halogen compounds	N07-L02A
removal of metal compounds	N07-L02E
removal of nitrogen compounds	N07-L02C
removal of sulphur compounds	N07-L02B
removal of unwanted chemical reaction by-products	E11-Q02C
sewage treatment	D04-A01J D04-B10 D04-B11 D05-A04A
electrical systems	X25-H03
incineration of sludge	D04-B10B
pyrolysis of sludge	D04-B10B
organic waste, town waste or sludge fermentation	*D05-A04A*
waste disposal processes/purification	N07-L01
catalytic combustion of waste	N07-L01A
waste water treatment	N07-L01B X25-H03
waste water from paper manufacture	F05-A02C
sewage sludge removal/treatment	D04-B10
electrical systems	X25-H03
dewatering sludge	D04-B10A
water treatment	D04-A01J N07-L01B
compositions	*A11-W11J*
removing coal slurry	D04-B03
removing hydrocarbons	D04-B03
removing impurities	D04-B
removing inorganic cyanides	D04-B07A
removing inorganic fluorine compounds and (thio)cyanates	D04-B07E
removing inorganic nitrogen compounds	D04-B07C
removing inorganic phosphorous	D04-B07B
removing inorganic sulphur compounds	D04-B07D
removing metals	D04-B05
heavy metals	D04-B05A
neutralising chromium	D04-B05A
removing lead	D04-B05A
removing mineral oil	D04-B03
removing natural products	D04-B04
clarification of water containing fat	D04-B04
removing organic materials	D04-B06
halohydrocarbons	D04-B06E
organic dyes/brighteners	D04-B06B
phenolic compounds	D04-B06A
polymers/monomers	D04-B06D

surfactants	D04-B06C
removing radioactive materials	D04-B07 K07-B

RECYCLING/RECOVERY OF MATERIALS

electrical recycling equipment	X25-W04
chemical extraction, recovery, purification	*E11-Q01*
medical	P31-R P32-R P33-R P34-R
polymer scrap recovery/recycling	A11-C03
recycling electrical components, equipment, and material	V04-X01G L03-J01
AV equipment	W03-G10C
battery materials	X16-M L03-E06
capacitor materials	
electrolytic	V01-B01G6G
non-electrolytic	V01-B04B8G
copier/printer/fax/scanner parts	S06-K04C
discharge tube salvaging	*V05-L07E6*
record carrier recycling and destroying	
general	T03-H02R
magnetic	T03-A01R
magneto-optical	T03-D01R
optical	T03-B01R
resistor materials	*V01-A04R2*
TV receiver	W03-A19C
semiconductors	U11-H L03-X06
recycling/recovery of ceramic	L02-A01
recycling/recovery of clay/slip/cement/stone	P64-R
recycling/recovery of combustion apparatus	Q73-R
recycling/recovery of components from lighting devices	Q71-R
recycling/recovery of drying parts/components	Q76-R
recycling/recovery of furnaces, kilns and retorts parts	Q77-R
recycling/recovery of glass	L01-B02
recycling/recovery of grinding media	P61-R
recycling/recovery of heat exchanger components	Q78-R
recycling/recovery of heating, ranges and ventilating systems/parts	Q74-R
recycling/recovery of medical components and material	
dentistry, bandages, veterinary, prosthesis components	P32-R
diagnosis or surgery components	P31-R
medical aids	P33-R
recycling/recovery of metal working machines and components	
foundry moulding, metal casting and powder metallurgy components	P53-R
milling and machining components	P54-R
punching, working and forging systems	P52-R
rolling, drawing and extruding systems	P51-R

recycling/recovery of paper X25-T09G
P72-A10
F05-A02B
in copier/printer/fax/scanner S06-K04A
recycling/recovery of photographic apparatus/components P82-R
recycling/recovery of photographic agents P83-R
P84-R
recycling/recovery of soldering and welding components P55-R
recycling/recovery of toner S06-K04B
recycling/recovery of wood/waste wood/sawdust P63-R
recycling waste water D04-A06
X25-H03
X25-W04
from semiconductor manufacture L04-X02
recovery of fibres F03-E02
recovery of ferrous metals *M24-A07*
recovery of non-ferrous metals *M25-E*
recovery of organic products/waste D05-A04A
e.g. for fertilizer production
regeneration of pulp liquors during paper and fibre-board mfr.
F05-A02C
other J09-C01A